# FISH AND SEDIMENT STUDY

Schlumberger Limited

Lake Hartwell 2001 Fish and Sediment Study Operable Unit 2 ROD Monitoring Program

November 2001

10115914



**Environmental Resources Management** 

### FISH AND SEDIMENT STUDY

Schlumberger Limited

Lake Hartwell 2001 Fish and Sediment Study Operable Unit 2 ROD Monitoring Program

November 2001

Project Manager

Reviewed by

**Environmental Resources Management** 

# TABLE OF CONTENTS

EXE	CUTIV	E SUMMARY	ES-1
1.0	INTR	RODUCTION	1-1
2.0	MET	HODS	2-1
3.0	RESU	ILTS	3-1
	3.1	SEDIMENTS	3-1
	3.2	CORBICULA	3-2
	3.3	FISH	3-3
4.0	DISC	CUSSION	4-1
	4.1	SEDIMENTS	4-1
	4.2	CORBICULA	4-4
	<b>4.</b> 3	FISH	4-4
	4.4	LONG-TERM MONITORING DESIGN FOR TREND ANALYSIS	<b>4-</b> 5
5.0	DATA	A QUALITY	5 <b>-1</b>

# LIST OF APPENDICES

Α	Sediment Analytical Data Sheets
В	Corbicula Analytical Data Sheets
С	Fish Analytical Data Sheets
D	Data Quality

## LIST OF FIGURES

1	Sediment Sampling Locations in Lake Hartwell showing PCB analytical results for 2001 OU2 Fish Study
2	Sediment Sampling Locations in Twelvenule Creek showing PCB analytical results for 2001 OU2 Fish Study
3	PCB Levels in Sediment Samples (1995-2001), Lake Hartwell OU2 Fish Study
4	TOC Levels in Sediment Samples (1996-2001), Lake Hartwell OU2 Fish Study
5	Corbicula Basket sampling locations in Twelvemile Creek Watershed - Spring 2001
6	PCB Levels in Corbicula Composite Samples (1995-2001), Lake Hartwell OU2 Fish Study
7	Fish Sampling Stations in Lake Hartwell showing PCB analytical results for 2001 OU2 Fish Study
8	PCB Levels in Largemouth Bass Fillet Samples (1990-2001), Lake Hartwell OU2 Fish Study
9	PCB Levels in Hybrid Bass Fillet Samples (1990-2001), Lake Hartwell OU2 Fish Study
10	PCB Levels in Channel Catfish Fillet Samples (1990-2001), Lake Hartwell OU2 Fish Study
11	PCB Levels in Bluegill Composite Samples (1995-2001), Lake Hartwell OU2 Fish Study
12	PCB Levels in Threadfin Shad Composite Samples (1995-2001), Lake Hartwell OU2 Fish Study
13	PCB Levels in Gizzard Shad Composite Samples (1995-2001), Lake Hartwell OU2 Fish Study

### LIST OF TABLES

Lake Hartwell OU2 Sediment Sampling Results Spring 2001
Lake Hartwell OU2 Study 2001 Corbicula Tissue Analysis
OU2 Fish Study - Field Data and Total PCB Results Spring 2001
OU2 Fish Study - Aroclor and Total PCB Results Spring 2001
2001 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in
Largemouth Bass Fillets
2001 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Hybrid
Bass Fillets
2001 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in
Channel Catfish Fillets
2001 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in
Bluegill, Threadfin Shad
and Gizzard Shad Composites

### **EXECUTIVE SUMMARY**

Annual monitoring of PCBs in sediments, fish tissues, and *Corbicula fluminea* (*Corbicula*) samples has been conducted since 1995 as part of post-ROD monitoring of Operable Unit 2 (Lake Hartwell) of the Sangamo Weston Superfund site. This report presents the results of the year 2001 monitoring effort. PCB concentrations were analyzed in sediment samples collected in April and May 2001 from 21 stations throughout the study area, including the Twelvemile Creek watershed (six locations) and Lake Hartwell (ten locations in the Twelvemile Creek and Seneca River Arm and five in the main body of Lake Hartwell). In addition, a 28-day *Corbicula* study was conducted at seven locations in the Twelvemile Creek area. Lastly, a total of 153 fish samples, representing largemouth bass, hybrid bass, channel catfish, bluegill, threadfin shad, and gizzard shad were collected from six locations in Lake Hartwell during April and May 2001.

The surficial sediment and fish data collected in 2001 are consistent with general patterns observed over the past several years where PCB concentrations have decreased since 1995. This decrease has been observed with increasing distance from the Twelvemile Creek Arm of Lake Hartwell where PCBs originally reached the lake as well as throughout the entire lake.

The average concentration of PCBs in sediment in the 18 stations located in the Seneca River Arm of Lake Hartwell are generally lower in 2001 than in 2000. The 2001 sampling also indicate a continued decrease from 1995 of residual PCBs in the sediments of free-flowing stream portion of Twelvemile Creek upstream of the lake.

A comparison of the 2001 results to the historic values discussed in the 1993 RI Report show the concentrations of PCBs decreased in the upper Twelvemile Creek area, indicating a flushing of the free flowing section of Twelvemile Creek Concentrations in other portions of Twelvemile Creek and in tributaries below Town Creek were lower than the historic values. In the lower Twelvemile Creek area, total PCB concentrations range from less than 0 06 ppm (detection limit) to a maximum concentration of 5 73 ppm at SD012 The 2001 values were lower than historic findings. The maximum concentration of 5.73 ppm was considerably lower than the maximum of 12 3 ppm reported in 2000.

Approximately 50 *Corbicula* were placed in baskets at each of the seven locations in Twelvemile Creek downstream of the plant site *Corbicula* are

a sensitive indicator of PCB bioaccumulation in the water column Samples were analyzed for PCBs following the 28-day field exposure period. Concentrations in organisms collected in 2001 showed decreases over 1995-2000 levels, particularly at Twelvemile Creek stations C-3 and C-5. The concentration in *Corbicula* at station C-6, the most downstream location, was similar to the 2000 value, which was considerably lower than the four previous surveys.

PCB concentrations in the tissues of forage fish species (bluegill, gizzard shad, and threadfin shad) showed decreasing concentrations with increasing distance from the Twelvemile Creek Arm In addition, concentrations detected in 2001 were generally lower than 1995-2000 levels

PCB concentration of fish tissue in the mobile hybrid bass do not show a consistent spatial pattern. These predatory fish range over the entire lake, and consume prey that reside in different areas with a range of PCB concentrations. However, PCB concentrations have consistently declined over time at all stations from the high levels observed in the early to mid-1990s. While the concentration of PCB in hybrid bass tissue was higher at station SV107 than previous years, this may be due to the unseasonably low water levels which may have reduced movement of this species and increased their exposure to sediments in the Twelvemile Creek Arm of Lake Hartwell. A return of normal rainfall and water level may reduce the exposure of hybrid bass to PCBs at this location

PCB concentrations in the tissues of less mobile gamefish species (largemouth bass and channel catfish) consistently show a spatial pattern of decreasing concentration with distance from the Twelvemile Creek Arm. Temporally, channel catfish tissue concentrations have decreased at all stations from the high values of the early to mid-1990s. Only 1 of 24 catfish collected in 2001 exceeded the FDA tolerance value of 2 0 ppm. Largemouth bass show a pattern of decreasing tissue concentrations from the sample location at the Twelvemile Creek Arm of the Lake to the stations located downstream toward the dam. Although the majority of the bass sampled around the lake are below the FDA tolerance level of 2 0 ppm, the fish that exceed the tolerance are concentrated in the Twelvemile Creek Arm. The concentration of PCB in largemouth bass tissue at SV107 was reduced from the concentration detected in 2000.

Although PCB concentrations in the 2001 sediment and fish tissue samples have decreased greatly relative to the historical data collected in the early to mid-1990s, some 2001 data showed increases in PCB concentrations over samples collected from the same stations in 2000 However, sporadic increases in PCB concentration, at some stations, are expected along with

the overall downward trend in concentration. The low water levels in the lake appear to have increased the exposure of some fish species to the depositional sediments, and a potential increase in turbidity due to the shallower depth. The most apparent effects of the low water level were observed in the sediments and some of the resident fish species in the historic sediment deposition zone in the upper and middle Twelvemile Creek Arm of the lake

Although this report discusses observations on apparent "trends" in various data sets, and makes observational comparisons of differences from one year's samples to the next, such conclusions about apparent trends are not rigorous because the data have not been subjected to any formal statistical analysis. The monitoring program implemented since 1995 was designed to assemble 10 or more years of data, which would then be subjected to statistical time series analyses, trend analyses, ANOVA testing or other methods that would take full advantage of the statistical power of the full data ensemble. Less rigorous analyses such as *t*-test comparisons between samples from adjacent years are not appropriate because of the inherent variability of the data, and the fact that the number of replicate samples is too small for such pairwise testing

### 1.0 INTRODUCTION

During 1976, the South Carolina Department of Health and Environmental Control (SCDHEC) and the United States Environmental Protection Agency (U S EPA) discovered that fish from certain areas of Lake Hartwell (Anderson, Pickens and Oconee Counties) contained polychlorinated biphenyls (PCBs) at concentrations greater than the United States Food and Drug Administration (U S FDA) tolerance levels. This contamination was above the safe tolerance level for consumption of fish by humans established by the United States Food and Drug Administration (U.S. FDA) Subsequent to these findings, a fish consumption advisory was issued by the SCDHEC for portions of Lake Hartwell as a conservative measure to reduce human exposure

The SCDHEC has conducted yearly studies in Lake Hartwell since 1976 to evaluate the level of PCB contamination in fish. The primary focus of these studies has been to gather PCB data for yearly updates in the fish consumption advisory. Annual results are available through 1993

During 1990, portions of Lake Hartwell became eligible for Superfund clean-up funds under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986. As a part of the June 1994 Final Record of Decision (ROD), aquatic biota monitoring and sediment sampling were required. The aquatic biota monitoring includes a comprehensive fish tissue study, which involves fish tissue sampling similar to the historic annual monitoring by the SCDHEC and a *Corbicula* tissue study.

Summarized in this report are the results of the year 2001 fish tissue, *Corbicula*, and sediment study of Lake Hartwell In addition, fish tissue data collected by the State of South Carolina, Savannah District Corps of Engineers (COE), and ERM from 1990 to present are included in bar charts to identify potential trends in PCB concentrations

#### **METHODS**

Sediment, *Corbicula*, and fish sampling was conducted in accordance with the procedures prescribed in the Final Record of Decision dated June 1994, and in coordination with SCDHEC, the Savannah District Corps of Engineers, and U.S. EPA Region IV Mr Butch Younginer of SCDHEC, Mr. Andy Gaston of the Savannah COE, and the South Carolina Fish and Game Commission were notified prior to sampling. Representatives from each agency did not request to participate in the sampling.

All fish, *Corbicula* and sediment samples were analyzed by EPA SW-846 Method 8082 for PCBs. In the field, composite samples of surficial sediments were collected across the channel at each station with a ponar dredge (sampling surficial sediment to a maximum depth of approximately six inches) in the lake, while grab samples from depositional areas of fine silt material were collected in the stream stations. Both PCBs and total organic carbon (TOC) were analyzed from each sample in order to determine the correlation between PCB concentrations and organic material in the surficial sediment

Sediment samples were collected with a petite ponar dredge on April 26 and April 27, 2001. Rainfall had been very low during April and both Town Creek and Twelvemile Creek water elevations were lower than normal. The dredge has a six-inch by six-inch opening and in soft sediments, it will collect to a depth of approximately six inches. Five grab samples were collected across the channel (typically bank to bank of the river channel) at each open water location, and individual grab samples were collected in the Twelvemile Creek stream locations. Composite samples were thoroughly mixed in an aluminum container prior to sampling with a clean stainless steel spoon. Each sample consisted of two, four-ounce glass jars, one sample for PCB analysis and the other for total organic carbon (TOC). Samples were immediately placed on ice to provide required temperature through sample delivery.

Field sampling equipment was decontaminated between sample stations using a detergent wash, deionized rinse, pesticide grade isopropanol rinse, and another deionized rinse. For the sediment samples, equipment rinse blanks and trip blanks were collected each day. In addition, two duplicates were collected for a total of 23 sediment samples. Samples were shipped on ice overnight to Northeast Analytical Laboratory (NEA) in Schenectady New York.

A total of seven sample locations were utilized for the analysis of bioconcentration of PCBs in *Corbicula* tissue Reference organisms were collected from Wolf Creek and transported the same day to the other test locations. Wolf Creek was selected as the reference location because of low PCB concentrations detected in the past, the great abundance of *Corbicula* at this location, and a minimal handling time *Corbicula* were retrieved after 28 days of incubation (April 26 through May 24, 2001), placed in labeled plastic bags, stored directly on ice, and transported to the ERM laboratory Baskets were collected from each site with no mortalities noted Organisms were transported to the ERM laboratory on ice and then frozen. After freezing to euthanize the *Corbicula*, samples were dissected at ERM and tissue samples were shipped to NEA for analyses

Fish targeted for sampling included largemouth bass (*Micropterus salnioides*), hybrid bass (*Morone sp.*), channel catfish (*lctalurus punctatus*), bluegill (*Leponis macrochirus*), gizzard shad (*Dorosoma cepedianum*) and threadfin shad (*Dorosoma petenense*)

Fish were collected at the six sample locations from April 16 through April 27, and four hybrid bass were collected on May 9 from SV107 due to the lack of success in collecting this species during April. Fish were collected by electrofishing and gill netting techniques. Fish were kept on wet ice from the time of sample collection to dissection. After sample collection, fish weight (g) and length (mm) were measured and recorded in a logbook prior to fillet collection Data recorded for each sample included species, location, weight, length, date, sex, grab or composite sample type, and sample number. Fillets were collected with a pre-cleaned stainless steel fillet knife. Prior to fillet sampling, fish were placed on a table covered with clean sheets of aluminum foil. Foil was changed between fish species and stations. All fillets and whole fish samples were wrapped in aluminum foil (dull side to the tissue), placed in a zip-lock or plastic bag, labeled and placed on ice Samples were sent to the analytical laboratory on wet ice, rather than frozen, to facilitate sample preparation and reduce sample handling Fat deposits and viscera were removed from each fillet rib cage prior to wrapping of the sample. The sampling equipment was decontaminated with detergent wash, pesticide grade isopropanol rinse, and deionized water rinse between each species and station. Equipment rinse blank and trip blank samples were collected every 20 samples for quality control purposes. One in 20 samples was identified for duplicate analysis and split from the sample in the laboratory after grinding. One matrix spike and matrix spike duplicate was tested for every 20 samples tested. The size class range of fish included:

Largemouth bass	15-30 lbs. (680-1,361 g)
Channel catfish	1 5-4.0 lbs. (680-1,814 g)
Hybrid bass	3.0-5 0 lbs (1,361-2,268 g)
Bluegıll	3-5 inches (76-127 mm)
Gızzard shad	>12 inches (>305 mm)
Threadfin shad	>3 inches (>76 mm)

Fish were sent overnight by Federal Express to NEA in Schenectady, New York, a South Carolina-certified laboratory The fish samples were received at or below 4° Celsius.

#### 3.0 RESULTS

#### 3.1 SEDIMENTS

Table 1 summarizes the 21 sediment samples collected in April and May of 2001 (see Appendix A for individual results). Figures 1 and 2 depict the sediment sample locations and PCB concentrations for 2001 data in Lake Hartwell and the Twelvemile Creek watershed, respectively Sediment values ranged from non-detected levels observed in the Wolf Creek and Town Creek tributaries of Twelvemile Creek to 5.73 ppm collected at SD-012 in the Twelvemile Creek Arm PCB concentrations generally decreased in an upstream direction from the maximum value detected in 2001 of 5.73 ppm to a concentration of 0.5835 ppm near Maw Bridge (SD-006). The concentrations in Twelvemile Creek upstream of Lake Hartwell ranged from <0 0638 ppm to 2.56 ppm (SD-000 to SD-005) The maximum concentration (2.56 ppm) detected in 2001 in the free-flowing section was reported in Town Creek downstream of the historic Sangamo discharge (SD-001) A value of <0.064 ppm was reported for the station upstream of the outfall in Town Creek (SD-000) The concentration of PCBs downstream of the outfall was much lower in 2001 than previous years with the maximum concentration detected in 2001 approximately  $1\ 0$ ppm lower than the 2000 maximum (3.87 ppm) PCB concentrations also declined in a downstream direction from the maximum value in the Twelvemile Arm (SD-012) to a concentration of less than <0.191 (station SD-532) ppm in the Seneca River Arm

In addition to the total PCB concentrations given in Table 1, PCB Aroclors were identified for each sediment sample Aroclors found in descending order of concentration and occurrence included. 1242 followed by 1254 The other four Aroclors were not detected in the sediment. The combinations of Aroclors and their prominence in the 2001 data samples were similar to the 2000 samples where 1242 was the most abundant followed by 1254 However Aroclors 1248 and 1260, which were detected in 2000, were not detected above 0.212 ppm in 2001. Aroclors 1232, 1221, 1260 and 1016 were not detected in either of the last two years with the exception of Aroclor 1221, which was detected in only two samples in 2000 Figure 3 provides the results of sediment analyses for the past six years of data collection Figure 3 generally illustrates the deposition of PCBs in the Twelvemile Creek/Lake Hartwell system. The highest concentrations of PCBs are found in the lower end of the Twelvemile Creek Arm (SD-009 through SD-013), which historically contained the greatest deposition of sediments transported from Twelvemile Creek A

comparison of the 2001 to 2000 sediment PCB concentrations indicates that the concentration was greater at 9 stations, lower at 8 stations and remained relatively the same at four stations. However, the average concentration in the sediment decreased from 2000 to 2001, with an average of 1.75 ppm in 2000 compared to an average of 1.4 ppm in 2001. (1/2 the detection limit was used as the concentration for the non-detects to calculate the average).

The TOC values for all sediment samples range from less than 2,310 ppm at SD-000 (a factor of four increase in the minimum from 2000) to 38,300 ppm at SD-011. The TOC values were higher in areas downstream of SD-007 in the Twelvemile Creek area, which indicates an area of deposition of fine silt in the impounded waters of Lake Hartwell The area of coarse substrate and low TOC appears to have extended from SD-006, in 1999, downstream to SD-007, in 2000 and 2001, with the second lowest TOC reported at SD-007 (3000ppm) in 2001 This is a length of approximately 3,000 feet where coarse material has apparently been deposited over earlier deposits of silt. In addition, the water level was low in 2001 and riverine flow was observed at SD-007 in April 2001 This may be a result of releases of sediment from the upstream reservoirs. The TOC results are presented graphically in Figure 4 for the six sampling events of 1996 to 2001. The TOC appears to be higher in 2001 than in 2000, as shown by an increase in the TOC values in 15 of the 21 samples, while the PCB concentration appears to be less than in 2000.

#### 3.2 CORBICULA

The analytical results of the seven *Corbicula* samples are summarized in Table 2 and illustrated in Figure 5. Analytical data sheets are provided in Appendix B Of the seven specific Aroclor compounds reported by the analytical method, two (1242 and 1254) were detected in the Corbicula tissue in the samples for the year 2001. Aroclors 1221 and 1248 were reported last in tissue samples collected in 1999 The Corbicula results are also graphically presented in Figure 6 for the six sampling events dating from 1995 to 2001 The highest concentrations of PCBs detected in Corbicula tissue were in samples collected immediately downstream of the OU-1 facility in Town Creek at C-1 (maximum 2 32 ppm). The PCB concentrations were much lower compared to previous years at the downstream locations, C-5 and C-6, where 0.45 ppm was the lowest value recorded at C-5, and 1.49 ppm was the second lowest for C-6 in the seven year monitoring period PCBs were not detected at the 0 05 ppm detection limit in *Corbicula* at stations C-0 (Town Creek upstream of the outfall), C-2 (Twelvemile Creek upstream of Town Creek), and C-4 (Wolf Creek)

#### 3.3 FISH

Sampling locations were selected to coincide with previous Lake Hartwell sampling events. The six fish tissue sampling locations are depicted in Figure 7. Also illustrated in Figure 7 are the mean PCB concentrations for the three filleted fish species sampled during 2001.

Provided in Table 3 is the summary of the 2001 Fish Tissue Study results, with the analytical data sheets provided in Appendix C. The following information is included in Table 3: sample number, sample date, sampled species, length, weight, sex and PCB concentration. A total of 153 fish samples were collected Due to the low numbers of acceptable size of hybrid bass at SV-107, nine fish were collected instead of ten Eleven hybrid bass were collected at SV-106. The breakdown of the specific Aroclors for each fish sample is summarized in Table 4. These data indicated the presence of only Aroclors 1254 and 1260 in fish tissue samples; however, Aroclors 1242 and 1254 were detected in the Corbicula and sediment Table 5 presents the PCB concentrations in each largemouth bass collected from each location, as well as the mean and standard deviation for each station. The mean data are also depicted graphically to illustrate the trends in mean concentrations at different stations. Similar information is presented in Tables 6 and 7 for hybrid bass and channel catfish, respectively Table 8 presents similar information for bluegill, threadfin shad, and gizzard shad

The PCB concentrations were below the 2 0 ppm FDA tolerance level in largemouth bass fillets at four of the six locations. The mean values at SV-107 and SV-106 were 6.93 ppm and 2 40 ppm, respectively. The mean PCB concentrations were less than 0.2 ppm at SV-535, SV-641, and SV-642, the three stations farthest downstream of Twelvemile Creek in the lake

The 20 ppm FDA limit was exceeded at all six stations for hybrid bass fillets. The maximum mean value of 6.29 ppm was detected at SV-107 (Twelvemile Creek), and the lowest mean value of 2.46 ppm was detected at Station SV-642 (near the dam)

The FDA limit of 2.0 ppm was exceeded in only one of the 24 catfish samples from the six sample locations. The one catfish with greater than 2 0 ppm PCB was a 3 7 pound fish from SV-107. The highest mean concentration detected in catfish fillet was 1.91 ppm at SV-107 with the lowest mean concentration detected nearest to the dam (SV-642) at 0 19 ppm

During the 2001 monitoring year, mean PCB concentrations in wholetissue samples of forage fish (Table 8) indicate various degrees of bioaccumulation with three of the nine samples greater than 2.0 ppm. These included all three forage fish species (gizzard shad, threadfin shad, and bluegill) from SV-107. The highest concentration of PCB in forage fish at SV-107 was found in gizzard shad at 6 16 ppm. The concentrations of PCBs in bluegill and threadfin shad at SV-107 were relatively similar at 3 37 and 2 99 ppm respectively. The concentration of PCBs was similar in bluegill and threadfin shad at SV-532 and SV-641 as well, with the concentration in gizzard shad higher than the other two species at both stations. The concentration of PCBs in bluegill and threadfin shad was below detection (0 05 ppm) at SV-641.

The PCB concentrations were less than 2 0 ppm in three of the nine forage fish samples, which is similar to the 2000 results. This is an indication of the continuing trend in overall reduction of fish tissue concentration in the lake. The PCB concentrations were lower in each forage fish species with increasing distance from the Twelvemile Creek Arm of Lake Hartwell.

The PCB concentrations detected in the 2001 fish study were compared to data from 1990 to present. Illustrated in Figures 8 through 10 are the trends in average PCB concentrations of fish fillets for largemouth bass, hybrid bass, and channel catfish, respectively. Each figure depicts the trends in PCB concentrations at each of the six locations sampled. The 2.0 ppm FDA limit was exceeded in largemouth bass fillets (Figure 8) at two stations, SV-107 and SV-106 (both locations are considered to be in the sediment deposition area of the Twelvemile Creek Arm) during this tenyear period. At SV-532, a single exceedance was reported during 1994. The lowest mean concentration recorded in the past 10 years at SV-532 was 0.67 ppm during 2001. There were no exceedances in average largemouth bass PCB concentrations at SV-535, SV-641 and SV-642 between 1990 and 2000. The PCB concentration detected at SV-107 (6.93 ppm) was the lowest recorded since 1995.

The database for hybrid bass does not include all years for all stations for the period 1990 through 2001 due to difficulties in collecting this highly mobile species in 1990 and 1991. Hybrid bass were collected at all locations from 1992 to 2001. The concentrations found in hybrid bass indicate a trend in reduction of PCB concentrations on a localized basis (Figure 9). The historic data indicate that PCB concentrations appear to be randomly distributed by date and location. The 2001 data show concentrations of PCBs were lowest at SV-642, near the dam. The lowest lake-wide averages have been reported at different stations over the last 11 years, which is evidence of the randomness of the PCB concentration in hybrid bass. The locations with historically the highest concentrations (over the past 5 years) are SV-106 and SV-532. During 2001, the highest concentrations were found at SV-107 and SV-106. The degree of scatter in

these data may be attributed to the wide migratory movements of the hybrid bass, which result in exposure to all areas of the lake and, as discussed above, the low water levels in the lake during 2001

The annual trends in mean PCB concentrations in catfish fillets (Figure 10) show lower concentrations detected with increasing distance from Twelvemile Creek. The concentration of PCBs was highest at SV-107. This trend was also observed in 7 of the last 10 years. In addition, the 2.0 ppm level was only exceeded in one fish sample (3.95 ppm) at SV-107. The overall trend in data collected over the past 10 years indicates a reduction in PCB concentrations in catfish fillets lake-wide

Sampling surveys that collected consistent sizes and species of fish were conducted annually from 1995 to 2001. Figures 11, 12, and 13, respectively show the concentration of PCBs in three species of forage fish (bluegill, threadfin shad, and gizzard shad). These data were collected over a limited period of time and, with the exception of gizzard shad (Figure 13), do not indicate definitive trends in the reduction of PCBs in forage fish. The gizzard shad data suggest a general decrease in PCBs with increasing distance downstream from Twelvemile Creek and with time. In general, the decrease in PCB concentrations with increasing distance from Twelvemile Creek is also observed in the bluegill and threadfin shad.

#### 4.1 SEDIMENTS

In the free flowing segment of Twelvemile Creek (SD-000 to SD-005), including Town Creek, the average and maximum PCB concentrations in sediments are reduced from 2000 levels. With the exceptions of SD-012 and SD-013, concentrations detected in other portions of Twelvemile. Creek and Lake Hartwell were generally lower or similar to the 2000 values. The maximum concentration detected in 2001 was substantially lower than the maximum detected in 2000.

"Historic" values were reviewed from data collected by the State and EPA from approximately 1977 to 1988 Sediment data were also reviewed from the data collected during the Remedial Investigation of 1991 (RI data) The 2001 data were compared to these two sample periods to understand trends in the concentration of PCBs in sediment spacially and over time

The Upper Twelvemile Creek Arm includes approximately the upper four miles of impounded waters of Lake Hartwell. This is one of the most heavily sampled areas of the lake to date. The concentrations of the four surface sediment composite samples of this area (SD-006 through SD-009) ranged from 0.22 ppm to 2.5 ppm in 2001. These values were much less than those reported by the State and EPA from 1976 through 1985 (historic), which ranged from 1.7 ppm to 48.0 ppm and those reported by ERM in 1995, which ranged from 0.943 ppm to 3.66 ppm. Germann (1988) indicated PCB surface sediment concentrations ranging from 5 to 50 ppm for this area. The 2001 data indicate that the PCB concentrations in surficial sediments of the Upper Twelvemile Creek Arm were reduced from historic levels and are lower than or similar to the 2000 levels

The Middle Twelvemile Creek Arm extends from Maw Bridge to the Highway 133 Two samples were collected in the area (SD-010 and SD-011) during the 2001 survey and found to have PCB concentrations of 2.6 and 2.3 ppm, respectively Historic PCB concentrations in this area have ranged from 0.84 to 64.3 ppm between 1976 and 1988 The RI/FS sampling of 1991 (RI data) indicated concentrations ranging from 0.16 to 6.48 ppm in 45 samples. A review of the post-1991 data indicates that the 2001 concentrations in this area are less than the highest values reported of 8.56 ppm and 16.0 ppm in 1995. The concentration detected at SD-010 in 2001 was slightly higher than the 2000 value (2.6 ppm vs 2.08 ppm)

while the SD-011 value in 2001 (2.3 ppm) was significantly less than the 2000 value of 12 5 ppm (the maximum value for that year)

The lower Twelvemile Creek Arm area, from Highway 133 to Highway 123, a reach of approximately 3 5 miles, includes stations SD-012 and SD-013. The concentrations detected in 2001 at SD-012 and SD-013 were 5 73 ppm and 3 98 ppm, respectively, and were the two highest concentrations detected in 2001. Historic concentrations at SD-013 have ranged from 0 39 to 55.62 ppm with maximums of 12.03 ppm and 55 62 ppm detected in 1977 and 1985, respectively. Since 1995, PCB concentrations have declined at both SD-012 and SD-013.

Historically, the highest concentrations of PCBs have been detected at SD-013. In 2001 the highest concentration was detected in SD-012 and the second highest was detected in SD-013. This area of the lake is located at the mouth of the impounded portion of the Twelvemile Creek Arm of Lake Hartwell in the area with the highest deposition rates. Consequently, this area and SD-011 have historically received the highest PCB loads associated with contaminated sediments from the watershed PCB levels prior to 1990 in this area were likely to have originated from upstream Recent surficial deposits in this area are likely due to residual PCBs in the sediments recently released from Woodside I and II in October 1998, combined with residual PCBs released during normal Spring flood events in 1999, 2000 and 2001 from remnant deposits in the free-flowing stream segments of Twelvemile Creek upstream of the reservoirs Prior to the 1998 controlled releases, the last full-scale flushing of Woodside I and II occurred in 1991 At that time, significant deposits of sediment were allowed to remain in the bottom of the reservoirs (see photographs in 1993 Feasibility Study). These deposits, some of which were released in October 1998, and again in 1999 and 2000/2001, contained residual PCBs from upstream releases The result of these releases is that the levels of PCBs in the surficial sediments sampled in 2001 reflect the presence of remnant quantities of PCBs upstream that are slowly removed, the transport of these deposits, and transient events in PCB release mechanisms. The data collected in 2001 show a reduction in the average PCB concentrations in the 21 samples compared to concentrations in 2000 (1.4 ppm in 2001 vs. 1.75 ppm in 2000) and a reduction in the maximum concentration detected.

The Seneca River Arm/Upper Hartwell Lake area (Highway 123 to Highway 37, a distance of approximately 3.05 miles) was sampled in 2001 at two locations—one near the upper end (SD-014) and one at the lower end of this reach (SD-015)—Concentrations of 0.814 ppm and 0.445 ppm, respectively, were recorded at these locations, both reduced from 2000. Historic sampling indicates that concentrations at these two locations have

ranged from 0 01 to 14 26 ppm, while 1991 RI data indicate concentration ranges from 0 04 to 5 26 ppm. The PCB concentrations in this area of the lake appear to have steadily decreased since the beginning of the sampling program. In general, the surficial sediment PCB and TOC data indicate both the origin of the recently deposited sediment, and deposition patterns in the impounded portion of Twelvemile Creek Arm of Lake Hartwell. PCB concentrations in surficial sediment at these two locations were the lowest in 2001 compared to the previous six years

Sediment sampling in the lower section of Lake Hartwell included five stations that correspond to the fish sampling locations SD-106, SD-532, SD-535, SD-642, and the background location in the Tugaloo River Arm SD-641. The PCBs ranged from <0.092 at SD-641 to 0.487 ppm at station SD-106 near Martins Creek. This is a factor of four reduction in concentration at SD-106 compared to 2000. The historic sampling data reflect few locations, which correspond to these locations. Specific locations that have been sampled in the past include SD-106, which was sampled in 1976 by SCHDEC. The range in concentrations determined in 1976 at SD-106 was 0.01 to 6.59 ppm. Since 1995, the concentrations at SD-106 have ranged from 0.514 ppm in 1998 to 8.92 ppm in 1995 and appear to be declining. The concentrations of PCB in the lower four stations have been below 2.0 ppm for the seven-year monitoring period and were all below 0.5 ppm in 2001 for the first time on record.

The total organic carbon (TOC) concentration has been analyzed in sediment routinely since 1996 For the most part, these data support an expected lower organic content in sediment samples from the free flowing stream stations. TOC concentration generally increases at station SD-008 or SD-009 and remains above approximately 20,000 ppm from that point to the dam. The highest TOC concentration (64,000 ppm) was measured at SD-106 in 1997 In comparison, the maximum concentration measured in 2001 was 38,300 ppm at SD-011. The TOC in 2001 was higher at 15 locations, lower at 4 locations and had no change at two locations compared to the 2000 values The PCBs are known to attach to the organic material in the sediment. The combination of the increase in TOC and reduction of PCB concentration supports the downward trend in overall PCB concentration in Lake sediments. The TOC was low at SD-007 compared to SD-008 The low water level and noticeable current velocity at SD-007 gives the appearance that sediments are continuing to move downstream

#### 4.2 CORBICULA

Results of the *Corbicula* tissue analyses indicate a reduction in PCB concentrations from 1995 through 2001 PCBs were detected at four locations (C-1, C-3, C-5, and C-6) and were at or below the detection limit at the background locations (C-0- Town Creek, C-2- Twelvemile Creek, and C-4-Wolf Creek). During the 2001 sampling period, the concentration of PCBs at the three background stations was below the detection limit of approximately 0.05 ppm. The concentration at six of the seven locations was less in 2001 than in 2000. The only exception was station C-6 where the concentration was 1.49 ppm, which was the second lowest measured value at this location in the seven-year monitoring period. The PCB concentration measured at C-1 was also the second lowest detected value of the period and the concentration measured at C-5 was the lowest concentration measured at this sampling location in the seven-year period.

Corbicula from Wolf Creek, where the PCB concentration was non-detect (<0.053 ppm) in tissue, were used as reference organisms. The concentration of PCBs ranged from <0.05 ppm at the control site in Town Creek (C-0), upstream of the OU-1 site, to 2.32 ppm (average of 2.23 ppm and 2.4 ppm duplicate) in Town Creek (C-1) downstream of the discharge

Corbicula have been analyzed for seven consecutive years. The trends indicated by these data are. 1) generally, background concentrations of PCBs were below the detection limit in the upstream locations on Town, Wolf, and Twelvemile Creeks, 2) relatively similar levels of bioaccumulation at stations downstream of the facility (C-1, C-3, C-5, and C-6), and 3) generally lower concentrations in 2001 than in 2000 and previous years

#### 4.3 FISH

The results of the 2001 OU2 Fish Study show PCB concentrations were generally lower with increasing distance from the Twelvemile Creek Arm of Lake Hartwell for largemouth bass, channel catfish and forage fish. PCB concentrations appear to have generally decreased with time. Forage fish show localized levels of contamination, similar to largemouth bass and channel catfish, with the highest PCB concentrations in forage fish detected in the Twelvemile Creek Arm and generally lower levels detected at stations downstream of Twelvemile Creek. The 2001 fish results show an overall reduction in the PCB concentrations in largemouth bass and channel catfish at most stations from the period 1990 through 2001

With two exceptions, largemouth bass and channel catfish collected at SV-532, SV-535, SV-641, and SV-642 had mean PCB concentrations less than 2 0 ppm from 1990 to 2001. Samples at SV-106 and SV-107 in 2001 were also less than 2.0 ppm for channel catfish. This was the second consecutive survey where the average concentration of PCB in catfish was below 2 0 ppm at all stations. The PCB concentrations in hybrid bass exceeded the 2 0 ppm FDA limit at all six stations in 2001. The PCB concentrations in hybrid bass are lowest at stations SV-641 and SV-642. While the concentration of PCBs in hybrid bass went up in 2001 compared to 2000, this may be due to the single 10-year high mean value reported at SV-107 (6 29 ppm). This high value appears to be due to the extremely low water level conditions in the lake and the potential increased exposure of hybrids and forage fish to sediment

The forage fish data show a reduction in PCB concentration with increasing distance from Twelvemile Creek for all three species. There is only a slight increase PCB concentration in the gizzard shad at SV-107 in 2001 compared to the previous four years. The 2001 bluegill values were similar to or lower than the 2000 values. PCBs in threadfin shad indicate no definitive trends at SV-107. The concentration of PCBs is lower in threadfin shad in 2001 than the previous five years. Over the last five years, concentrations at station SV-641 remained below 0.1 ppm in threadfin shad and bluegill

#### 4.4 LONG-TERM MONITORING DESIGN FOR TREND ANALYSIS

Although this report discusses observations and apparent "trends" in various data sets, the data have not been subjected to any formal statistical analyses. The monitoring program implemented in 1995 was designed to collect 10 or more years of data, which would then be subjected to statistical time series analyses, trend analyses, ANOVA testing or other methods of data analyses. Statistical analyses to discern trends in the sediment and fish data should only be conducted on data collected after the effects of episodic events like the flushing of the hydroelectric reservoirs have dampened out with time

Samples of fish, Corbicula tissue, and sediment from the OU2 study area were analyzed for PCBs The analytical method used was EPA SW-846, Method 8082 Fish and sediment samples were collected from April 16 to April 27, 2001, and Corbicula were collected on May 24, 2001 Northeast Analytical, Inc. (NEA) performed analyses on fish and sediment from April 24 through June 12, 2001 and analyzed Corbicula tissue on June 12, 2001. Quality assurance (QA) samples were collected in the field and submitted for analyses. QA samples included: 1) field prepared sediment duplicates (one per ten samples collected); 2) Equipment rinsate, and field blanks collected for both fish and sediment samples (one per 20 samples collected), and 3) duplicates of fish tissue and Corbicula samples (one per 10 samples collected) split in the laboratory All samples were delivered overnight to the laboratory with complete chain of custody documentation. The sample preservation requirement for PCB analysis (temperature less than or equal to  $4^{\circ}$ C) was maintained. During this sampling event, fish tissue, Corbicula, sediment, and water samples were kept on ice prior to shipment to the laboratory

EPA and SCDHEC require that PCB samples are extracted within 14 days following collection and analyzed within 40 days following extraction. No samples exceeded the allowable holding time.

The seven Aroclors specified under Method 8082 were reported for each sample analyzed. The practical quantitation limit (PQL) was specified for each Aroclor and sample combination. The PQLs ranged from 0.0505 to 0.546 ppm for fish tissue, 0.0591 to 0.212 ppm for sediments, and 0.0508 to 0.108 for *Corbicula*. The PQLs specified above are within the same range as the estimated quantitation limit (EQL) for high concentration soils and sludges referenced in Method 8082.

Quality assurance/quality control (QA/QC) analytical results are included in Appendix D. PCBs were not present in any of the equipment rinsates or trip blanks at a PQL of 0.0500 to 0 0633 ppb. This range of PQLs is less than the Method 8082 EQL of 0 065 ppb. This indicates the presence of PCBs was not due to equipment contamination

Two sediment samples were submitted in duplicate for analysis Fifteen fish and one *Corbicula* samples were split in the laboratory for duplicate analysis. The results indicated good precision for the combined sample collection and analysis procedure. There is no guideline for an acceptable level of precision for the combined sample collection and analysis of

duplicate samples for PCBs The relative precision (percent difference), however, of all but two duplicate samples tested were less than 35% and generally less than 15%, which indicates good precision. The two exceptions were fish samples SV532-08 and SV641-01. SV532-08 had a measured value of 0 986 ppm and a duplicate value of 1.68 ppm for a precision of 52 0% and SV641-01 had a measured value of 0 125 ppm and a duplicate value of 0.265 ppm for a precision of 71 8%.

Laboratory quality control procedures included the addition of surrogate standards prior to analysis, the analysis of a duplicate and matrix spike on selected samples, and the analysis of method blanks. In accordance with Method 8082 procedures, two surrogate standards (tetrachloromethaxylene and dichlorobiphenol) were incorporated into all samples analyzed. The percent recovery of these surrogates was the limit set by the method. The recovery limits set by method 8082 range from 60% to 130%.

Laboratory matrix spike samples and duplicates of the matrix spikes (MS/MSD) were prepared and analyzed from 10 samples. The percent recovery of matrix spikes ranged from 90 7% to 127% The percent matrix spike duplicate recoveries for total PCBs ranged between 88.5% and 129%. These recoveries are most favorable as compared to the recoveries referenced in Method 8082 and are indicative of good accuracy in the data

Laboratory control spikes were prepared and analyzed from 11 samples. The percent recoveries for the Laboratory control spikes ranged from 92% to 116%. The agreement between the amount spiked and amount recovered for the samples was within acceptable recovery rates. The recovery rates are indicative of good precision in the data.

A total of 11 laboratory method blanks were analyzed. PCBs were not detected in any method blank. The maximum PQLs for the method blanks were all 0 0505-0 0555  $\mu$ g/g for solid samples

w/schlum1/4517/2001/TSED501 xls 11/16/2001

Table 1 Lake Hartwell OU2 Sediment Results - Spring 2001

Sample	Date			Arock	Aroclor Identification- ug/g	tion- ug/g			Total	TOC
Number	Sampled	1016	1221	1232	1242	1248	1254	1260	- PCB - μg/g	mg/kg
SD000	4/26/2001	< 0.0638	< 0 0638	< 0 0638	< 0.0638	< 0.0638	< 0.0638	< 0.0638	00 0	2,310
SD001	4/26/2001	< 0 124	< 0 124	< 0 124	1 86	< 0 124	669 0	< 0 124	2 56	20,700
SD002	4/26/2001	< 0 0742	< 0 0742	< 0 0742	0 192	< 0 0742	0 491	< 0 0742	0 683	7,400
SD003	4/26/2001	< 0 130	< 0 130	< 0 130	< 0 130	< 0 130	< 0 130	< 0 130	00 0	17,200
SD004	4/26/2001	< 0 138	< 0 138	< 0 138	0 303	< 0 138	0 765	< 0 138	1 07	24,900
SD005	4/26/2001	< 0 0771	< 0 0771	< 0 0771	0 136	< 0 0771	0 231	< 0 0771	0 367	9,150
SD006	4/26/2001	< 0 0854	< 0 0854	< 0 0854	0 335	< 0 0854	0 371	< 0 0854	902 0	7,450
SD006 Dup	4/26/2001 < 0 0751	< 0 0751	< 0 0751	< 0 0751	0 213	< 0 0751	0 248	< 0.0751	0 461	9,540
SD007	4/25/2001 <0 0591	<0 0591	<0 0591	<0 0591	0 151	<0 0591	0 0673	<0.0591	0 218	3,000
SD008	4/25/2001	<0 0727	<0 0727	<0 0727	0 251	<0 0727	0 221	<0.0727	0 472	16,300
SD009	4/25/2001	<0 142	<0 142	<0 142	1 19	<0 142	1 38	<0 142	2 57	35,700
SD009 Dup	4/25/2001	<0 134	<0 134	<0 134	1 05	<0 134	131	<0 134	2 36	29,500
SD010	4/25/2001 <0 126	<0 126	<0 126	<0 126	1 37	<0 126	1 23	<0 126	2 60	29,200
SD011	4/25/2001 <0 146	<0 146	<0 146	<0 146	1 17	<0 146	1.15	<0 146	2 32	38,300
SD012	4/25/2001	<0 212	<0 212	<0 212	4 27	<0 212	1 46	<0.212	5 73	15,800
SD013	4/25/2001	<0 148	<0 148	<0 148	2 83	<0 148	1 15	<0 148	3 98	32,900
SD014	4/25/2001	<0.119	<0 119	<0 119	0 507	<0 119	0 307	<0 119	0 814	16,500
SD015	4/25/2001	<0 118	<0 118	<0 118	0 204	<0 118	0 241	<0 118	0 445	12,500
SD106	4/26/2001	<0 153	<0 153	<0 153	0 181	<0 153	0 306	<0.153	0 487	25,300
SD532	4/26/2001 <0 191	<0 191	<0 191	<0 191	<0 191	<0 191	<0 191	<0 191	00 0	33,900
SD535	4/27/2001	<0 101	<0 101	<0.101	0 172	<0 101	0 226	<0.101	0 398	25,500
SD641	4/27/2001	<0 142	<0 142	<0 142	0 157	<0 142	0 179	<0 142	0 336	30,000
SD642	4/27/2001	<0 0949	<0 0949	<0 0949	<0 0949	<0 0949	<0 0949	<0 0949	00 0	22,200

TOC Total Organic Carbon

Table 2 Lake Hartwell OU-2 Study 2001 Corbicula Tissue Analysis

Station		Arocl	or Identifi	cation and	PCB Cor	Aroclor Identification and PCB Concentration (µg/g)	(g/gn) u	
No.	1016	1221	1232	1242	1248	1254	1260	Total
C-0: Town Creek upstream of Sangamo Weston	<0 0555	<0 0555	<0 0555	<0 0555	<0.0555	<0.0555	<0.0555	<0.0555
C-1: Town Creek downstream of Sangamo Weston < 0.107	1 < 0.107	< 0.107	< 0 107	1 73	< 0 107	0 498	<0.107	2 23
C-1 DUP Town Creek downstream of Sangamo W < 0 108	ر < 0 108	< 0.108	< 0.108	1.86	< 0.108	0.540	< 0.108	2 40
C-2 Twelvemile Creek upstream on Town Creek	< 0 0508	< 0.0508	< 0.0508	< 0 0508	< 0 0508	< 0 0508	< 0.0508	< 0.0508
C-3 Twelvemile Creek at Algood Bridge	<0 0533	<0 0533	<0.0533 0 478	0 478	<0 0533	0 362	<0.0533	0 840
C-4 Wolf Creek	<0 0524	<0 0524	<0.0524	<0 0524	<0 0524	<0 0524	<0 0524	<0 0524
C-5 Twelvemile Creek at 137 Bridge	<0 0533	<0 0533	<0.0533	0 147	<0 0533	0 303	<0.0533	0.450
C-6 Twelvemule Creek at Maw Bridge (Hwy 337)	<0.104	<0 104	<0.104	0 746	<0 104	0 743	<0 104	1 49

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 2001

Sample	Date	Species	Length	Weight	Sex	Total PCB
Number			(mm)	(grams)		(ppm)
SV-107-01	4/17/2001	GS	275-325	200-350	u	6 16
SV-107-02	4/17/2001	BG	85-190	500 t	u	3 37
SV-107-03	4/17/2001	LB	400	800	f	5.49
SV-107-04	4/17/2001	LB	420	850	f	2 15
SV-107-05	4/17/2001	LB	380	750	f	9.03
SV-107-06	4/17/2001	CC	550	1700	f	4.00
SV-107-06 Dup	4/17/2001	CC	550	1700	f	3 89
SV-107-07	4/17/2001	CC	405	600	f	1 93
SV-107-08	4/17/2001	CC	410	550	m	1 13
SV-107-09	4/17/2001	TF	90-120	100 t	u	2 99
SV-107-10	4/18/2001	LB	470	1200	f	8 08
SV-107-11	4/18/2001	LB	460	1000	f	2 83
SV-107-12	4/18/2001	LB	470	1200	f	3.01
SV-107-13	4/18/2001	LB	480	1400	f	2 82
SV-107-13 Dup	4/18/2001	LB	480	1400	f	2 9
SV-107-14	4/18/2001	LB	400	800	ſ	13
SV-107-15	4/18/2001	LB	375	600	f	5 78
SV-107-16	4/18/2001	LB	370	600	m	17 1
SV-107-17	4/18/2001	CC	410	550	m	0 611
SV-107-18	4/19/2001	HB	570	2500	m	8.54
SV-107-19	4/19/2001	HB	410	1050	f	5 90
SV-107-20	4/25/2001	HB	460	1400	ſ	6.81
SV-107-21	4/26/2001	HB	500	1700	f	6 87
SV-107-22	4/26/2001	НВ	460	1560	f	5 64
SV-107-23	5/9/2001	HB	460	1520	f	3 98
SV-107-24	5/9/2001	HB	460	1500	f	8.00
SV-107-25	5/9/2001	HB	430	1550	f	3 91
SV-107-26	5/9/2001	НВ	430	1525	m	7 00

HB - Hybrid Bass

CC - Channel Catfish

TS - Threadfin Shad

GS - Gizzard Shad

BG - Bluegill

SB - Stripped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 2001

Sample	Date	Species	Length	Weight	Sex	Total PCB
Number			(mm)	(grams)		$(\mu g/g)$
SV-106-01	4/17/2001	НВ	450	1200	f	3 05
SV-106-02	4/17/2001	НВ	440	1200	f	4 55
SV-106-03	4/17/2001	НВ	460	1300	ſ	2 74
SV-106-04	4/17/2001	LB	400	800	m	4 14
SV-106-04 Dup	4/17/2001	LB	400	800	m	4 76
SV-106-05	4/17/2001	LB	358	750	m	3 860
SV-106-06	4/17/2001	LB	380	650	m	2 60
SV-106-07	4/17/2001	LB	360	600	m	1 37
SV-106-08	4/17/2001	LB	370	600	m	5 02
SV-106-09	4/17/2001	LB	355	650	m	1.45
SV-106-10	4/17/2001	LB	355	600	m	1 83
SV-106-11	4/17/2001	LB	400	850	m	1 63
SV-106-12	4/17/2001	LB	340	600	m	0.624
SV-106-13	4/17/2001	CC	420	650	m	0 714
SV-106-14	4/17/2001	CC	420	600	f	1 27
SV-106-15	4/17/2001	CC	440	750	f	1.44
SV-106-16	4/26/2001	CC	390	650	f	0 468
SV-106-17	4/18/2001	НВ	430	1000	m	2.03
SV-106-18	4/18/2001	LB	360	500	m	1.21
SV-106-19	4/19/2000	НВ	435	1200	ſ	4 78
SV-106-20	4/19/2000	НВ	410	1100	f	3 59
SV-106-21	4/25/2001	HB	540	2050	f	7 63
SV-106-22	4/26/2001	НВ	440	1250	ſ	3 47
SV-106-22 Dup	4/26/2001	HB	440	1250	f	3.40
SV-106-23	4/26/2001	НВ	450	1250	f	2.03
SV-106-24	4/26/2001	НВ	415	1000	f	3.07
SV-106-25	4/26/2001	НВ	455	1300	ſ	2.03

HB - Hybrid Bass

CC - Channel Catfish

TS - Threadfin Shad

GS - Gizzard Shad

BG - Bluegill

SB - Stripped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 2001

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB
SV-532-01	4/17/2001	BG	100-150	300 t	u	0.369
SV-532-02	4/17/2001	LB	420	850	f	0 226
SV-532-03	4/17/2001	LB	380	650	m	0.938
SV-532-04	4/17/2001	LB	490	1400	f	0 159
SV-532-04 Dup.	4/17/2001	LB	490	1400	f	0 163
SV-532-05	4/17/2001	LB	390	750	m	1 240
SV-532-06	4/17/2001	LB	400	800	m	0.183
SV-532-07	4/17/2001	LB	460	1300	f	0.309
SV-532-08	4/17/2001	LB	470	1400	f	0 986
SV-532-08 Dup.	4/17/2001	LB	470	1400	f	1 680
SV-532-09	4/17/2001	LB	390	700	f	0 765
SV-532-10	4/17/2001	LB	420	950	m	0.752
SV-532-11	4/17/2001	LB	420	950	f	0.806
SV-532-12	4/17/2001	TF	85-115	150 t	u	0 550
SV-532-13	4/18/2001	CC	480	850	f	0.553
SV-532-14	4/18/2001	НВ	455	1450	f	4 27
SV-532-14 Dup	4/18/2001	НВ	455	1450	f	4 88
SV-532-15	4/18/2001	НВ	455	1350	f	4 35
SV-532-16	4/18/2001	НВ	460	1350	f	3 34
SV-532-17	4/18/2001	HB	440	1200	f	2 54
SV-532-18	4/18/2001	HB	450	1250	f	2 060
SV-532-19	4/18/2001	HB	465	1300	f	1.42
SV-532-20	4/18/2001	НВ	440	1200	f	1 09
SV-532-21	4/18/2001	HB	460	1400	f	1.69
SV-532-22	4/18/2001	НВ	440	1300	<u>f</u>	3 52
SV-532-23	4/18/2001	HB	460	1300	f	1.45
SV-532-24	4/18/2001	CC	440	750	f	1.81
SV-532-24 Dup.	4/18/2001	CC	440	750	f	1.28
SV-532-25	4/18/2001	CC	420	650	f	0 560
SV-532-26	4/18/2001	CC	385	550	m	0 936
SV-532-27	4/18/2001	GS	250-335	200-450	u	1.760

HB - Hybrid Bass

CC - Channel Catfish

TS - Threadfin Shad

GS - Gizzard Shad

BG - Bluegill

SB - Stripped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 2001

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB
SV-535-01	4/20/2001	НВ	450	1200	f	1 15
SV-535-02	4/19/2001	CC	580	2200	f	0 762
SV-535-02 Dup.	4/19/2001	CC	580	2200	f	0 675
SV-535-03	4/19/2001	LB	405	900	m	0 200
SV-535-04	4/19/2001	LB	425	1200	f	0 166
SV-535-04 Dup	4/19/2001	LB	425	1200	f	0 164
SV-535-05	4/19/2001	LB	350	600	m	0 228
SV-535-06	4/19/2001	LB (A)	340	550	m	0 161
SV-535-07	4/19/2001	LB	335	550	m	0 136
SV-535-08	4/19/2001	LB	345	550	m	0.074
SV-535-09	4/19/2001	LB	390	800	m	0.177
SV-535-10	4/19/2001	LB	440	1100	m	0 266
SV-535-11	4/27/2001	LB	360	675	ſ	0 000
SV-535-12	4/19/2001	LB	375	700	m	0 218
SV-535-13	4/19/2001	CC	550	1750	f	1.87
SV-535-14	4/19/2001	CC	500	1050	f	0 99
SV-535-15	4/19/2001	CC	520	1200	f	0.18
SV-535-16	4/19/2001	НВ	450	1250	f	0.570
SV-535-17	4/27/2001	НВ	570	2700	m	4 96
SV-535-18	4/19/2001	НВ	440	1150	f	1 49
SV-535-19	4/19/2001	HB	450	1300	f	4 23
SV-535-20	4/20/2001	HB	460	1250	f	4 96
SV-535-21	4/20/2001	НВ	590	2350	f	1 64
SV-535-22	4/20/2001	HB	460	1550	f	2.83
SV-535-23	4/20/2001	НВ	465	1550	m	1 98
SV-535-24	4/20/2001	НВ	460	1400	f	6 58

HB - Hybrid Bass

CC - Channel Catfish

TS - Threadfin Shad

GS - Gizzard Shad

BG - Bluegill

SB - Stripped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

d - Duplicate

A - Anom (Parasites)

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 2001

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB (ug/g)
SV-642-01	4/19/2001	LB	530	1950	f	0.658
SV-642-02	4/19/2001	LB	430	1000	m	0 00
SV-642-03	4/19/2001	LB	410	900	f	0.218
SV-642-04	4/19/2001	LB	370	550	m	0 129
SV-642-05	4/19/2001	LB	395	800	m	0.076
SV-642-06	4/19/2001	LB	395	700	m	0 101
SV-642-07	4/19/2001	LB	360	600	m	0.00
SV-642-08	4/19/2001	LB	355	550	f	0 00
SV-642-09	4/19/2001	LB	330	450	f	0.167
SV-642-10	4/19/2001	LB	325	500	m	0 00
SV-642-10 Dup.	4/19/2001	LB	325	500	m	0 00
SV-642-11	4/19/2001	CC	440	1000	f	0 00
SV-642-12	4/20/2001	HB	455	1450	ſ	0.0847
SV-642-13	4/20/2001	HB	500	1700	f	0 928
SV-642-14	4/20/2001	HB	470	1250	m	0.446
SV-642-15	4/20/2001	НВ	435	1200	m	0 99
SV-642-16	4/20/2001	HB	450	1350	m	4.48
SV-642-17	4/20/2001	HB	510	2150	f	6.99
SV-642-17 Dup.	4/20/2001	HB	510	2150	f	7 21
SV-642-18	4/20/2001	НВ	460	1300	f	1 37
SV-642-19	4/20/2001	CC	450	750	f	0 543
SV-642-20	4/20/2001	CC	500	1000	f	0 0764
SV-642-20 Dup	4/20/2001	CC	500	1000	f	0 0712
SV-642-21	4/20/2001	CC	420	700	f	0.124
SV-642-22	4/25/2001	НВ	525	2000	f	3.75
SV-642-23	4/25/2001	HB	510	2200	f	1 28
SV-642-24	4/25/2001	НВ	520	1850	f	4 14

HB - Hybrid Bass

CC - Channel Catfish

 $\Gamma S$  - Threadfin Shad

GS - Gizzard Shad

BG - Bluegill

SB - Stripped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 2001

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB
SV-641-01	4/20/2001	LB	450	1275	m	0 125
SV-641-01 Dup.	4/20/2001	LB	450	1275	m	0 265
SV-641-02	4/20/2001	LB	340	550	m	0.0954
SV-641-03	4/20/2001	LB	410	910	m	0.0595
SV-641-04	4/20/2001	LB	355	600	m	0.00
SV-641-05	4/20/2001	LB	375	700	m	0.104
SV-641-06	4/25/2001	LB	350	550	f	0.00
SV-641-07	4/20/2001	LB	360	700	m	0 0537
SV-641-08	4/20/2001	LB	440	1100	f	0 0746
SV-641-09	4/20/2001	LB	390	675	f	0 820
SV-641-10	4/20/2001	LB	440	1100	f	0.182
SV-641-11	4/20/2001	CC	410	600	f	0 0665
SV-641-12	4/27/2001	НВ	435	1200	f	0 320
SV-641-13	4/20/2001	HB	440	1200	f	3 83
SV-641-14	4/27/2001	HB	450	1800	f	3 78
SV-641-15	4/20/2001	BG	115-165	450 t	u	0.00
SV-641-16	4/20/2001	TS	70-102	100 t	u	0.00
SV-641-17	4/25/2001	НВ	535	1850	f	1.01
SV-641-17 Dup.	4/25/2001	HB	535	1850	f	0.77
SV-641-18	4/25/2001	HB	570	2150	m	4 29
SV-641-19	4/25/2001	НВ	450	1200	f	1 14
SV-641-20	4/25/2001	НВ	440	1200	m	3 32
SV-641-21	4/25/2001	HB	435	1200	f	0.342
SV-641-22	4/26/2001	HB	495	2000	f	4 04
SV-641-23	4/26/2001	CC	455	1000	f	0.0763
SV-641-24	4/26/2001	CC	420	650	f	0 00
SV-641-25	4/26/2001	CC	410	650	f	0.00
SV-641-26	4/27/2001	НВ	450	1700	f	3 1
SV-641-27	4/25/2001	GS	200-300	260-300	u	0 37

HB - Hybrid Bass

CC - Channel Catfish

TS - Threadfin Shad

GS - Gizzard Shad BG - Bluegill

SB - Stripped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 2001

Sample	Species	Date			Aroc	Aroclor Identification- ug/g	ition- ug/g			Total
Number	& Number	Sampled	1016	1221	1232	1242	1248	1254	1260	PCB - μg/g
SV-107-01	GS	4/17/2001	<0 273	<0.273	<0 273	1 50	<0 273	4 08	0 582	6 16
SV-107-02	BG	4/17/2001	<0 161	<0 161	<0 161	0 279	<0 161	2 70	0 390	3 37
SV-107-03	LB	4/17/2001	<0 214	<0 214	<0 214	0 378	<0.214	4 32	0 789	5 49
SV-107-04	LB	4/17/2001	<0 108	<0 108	<0 108	0 143	<0 108	1 64	0 368	2 15
SV-107-05	LB	4/17/2001	<0.328	<0 328	<0 328	1 030	<0 328	6 92	1 080	9 03
SV-107-06	သ	4/17/2001	<0 212	<0 212	<0 212	<0 212	<0 212	3 20	0 805	4 01
SV-107-06 Dup	သ	4/17/2001	<0 220	<0 220	<0 220	<0 220	<0 220	3 14	0 748	3 89
SV-107-07	ည	4/17/2001	< 0 109	> 0 109	<0 109	0 223	<0 109	1 44	0 267	1 93
SV-107-08	သ	4/17/2001	< 0 0545	< 0 0545	< 0 0545	0 0578	< 0 0545	0 803	0 268	1.13
SV-107-09	TS	4/17/2001	991 0>	<0 166	<0 166	999 0	<0 166	2 12	0 208	2 99
SV-107-10	LB	4/18/2001	<0 362	<0 362	<0 362	0 708	<0 362	5 5 5	1 820	8 08
SV-107-11	LB	4/18/2001	<0 108	<0 108	<0 108	0 151	<0 108	2 02	0 657	2 83
SV-107-12	LB	4/18/2001	<0 109	<0 109	<0 109	0 320	<0.109	2 16	0 534	3 01
SV-107-13	LB	4/18/2001	<0.108	<0.108	<0 108	0 1 1 0	<0.108	2 20	0 511	2 82
SV-107-13 Dup	LB	4/18/2001	<0.109	<0 109	<0 109	0 131	<0 109	2 28	0 490	2 90
SV-107-14	LB	4/18/2001	<0 546	<0 546	<0 546	2 490	<0 546	816	1 320	13.0
SV-107-15	LB	4/18/2001	<0 271	<0.271	<0 271	0 595	<0 271	4 38	0 801	5 78
SV-107-16	LB	4/18/2001	<0 535	<0 535	<0 535	1 580	<0 535	13.3	2 250	171
SV-107-17	သ	4/18/2001	<0.0526	<0.0526	<0 0526	0 0833	<0.0526	0 474	0 0536	0 611
SV-107-18	НВ	4/19/2001	<0 440	<0 440	<0 440	0 662	<0 440	969	0 917	8 54
SV-107-19	HB	4/19/2001	<0 206	<0 206	<0 206	0 511	<0 206	4 53	0 858	5 90
SV-107-20	HB	4/25/2001	<0.211	<0 211	<0 211	0 879	<0 211	5 15	0 782	6.81
SV-107-21	HB	4/26/2001	<0 161	<0 161	<0 161	0 820	<0.161	5 1 5	268 0	6.87
SV-107-22	HB	4/26/2001	<0 156	<0 156	<0.156	0 605	<0 156	4 30	0 738	5 64
SV-107-23	HB	5/9/2001	<0 109	<0 109	<0109	0 507	<0 109	3 00	0 471	3 98
SV-107-24	HB	5/9/2001	<0.218	<0.218	<0.218	1 110	<0 218	5 92	0 974	8 00
SV-107-25	НВ	5/9/2001	<0 109	<0 109	<0 109	0 453	<0.109	3 02	0 434	3 91
SV-107-26	HB	5/9/2001	<0 204	<0.204	<0.204	0 930	<0 204	5 24	0 825	7 00

LMB - Large Mouth Bass HB - Hybrid Bass CC - Catfish GS - Gisard Shad

BG - Blue Gill TS - Thread Fin Shad < - Indicates as undetected value

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 2001

Sample	Species	Date			Arocl	Aroclor Identification- ug/g	tion- ug/g			Total
Number	& Number	Sampled	1016	1221	1232	1242	1248	1254	1260	PCB - μg/g
SV-106-01	HB	4/17/2001	<0 103	<0 103	<0 103	0 370	<0 103	2 31	0 371	1
SV-106-02	НВ	4/17/2001	<0 162	<0 162	<0 162	0 612	<0 162	3 42	0 521	4 55
SV-106-03	HB	4/17/2001	<0.107	<0 107	<0 107	0 387	<0102	2 03	0 319	2 74
SV-106-04	LB	4/17/2001	<0.210	<0.210	<0.210	<0.210	<0 210	3 41	0 728	4 14
SV-106-04 Dup	LB	4/17/2001	<0 208	<0 208	<0 208	<0.208	<0 208	3 84	0 925	4 77
SV-106-05	LB	4/17/2001	<0 163	<0 163	<0 163	0 404	<0.163	2 94	0 513	3 86
SV-106-06	LB	4/17/2001	<0 111	<0 111	<0 111	0 249	<0 1111	1 98	0 366	2 60
SN-106-07	LB	4/17/2001	<0 110	<0 110	<0 110	0 143	<0 110	1 07	0 154	1 37
SV-106-08	LB	4/17/2001	<0 213	<0.213	<0 213	<0.213	<0.213	1 48	3 54	5 02
SN-106-09	LB	4/17/2001	<0 108	<0 108	<0 108	0 163	<0 108	1 10	0 185	1 45
SV-106-10	LB	4/17/2001	<0110	<0 110	<0110	0 163	<0 110	1 37	0 292	1 83
SV-106-11	LB	4/17/2001	<0.107	<0 107	<0 107	0 177	<0 107	1 24	0 208	1 63
SV-106-12	LB	4/17/2001	<0 0552	<0 0552	<0 0552	<0 0552	<0 0552	0 543	0 0811	0 624
SV-106-13	SS	4/17/2001	<0 0552	<0.0552	<0 0552	<0 0552	<0 0552	0 58	0 137	0 714
SV-106-14	2	4/17/2001	<0 0530	<0.0530	<0.0530	<0 0530	<0.0530	0 981	0 287	1 27
SV-106-15	ည	4/17/2001	<0.0531	<0.0531	<0.0531	<0.0531	<0.0531	1 18	0 258	1 44
SV-106-16	2	4/26/2001	<0.0520	<0 0520	<0.0520	<0 0520	<0.0520	0 354	0 114	0 468
SV-106-17	НВ	4/26/2001	<0.0533	<0.0533	<0.0533	0 246	<0.0533	1 540	0 242	2 03
SV-106-18	LB	4/26/2001	<0.0519	<0.0519	<0.0519	0 0597	<0.0519	0 931	0 221	1 21
SV-106-19	НВ	4/26/2001	<0.207	<0 207	<0.207	899 0	<0 207	3 56	0 548	4 78
SV-106-20	HB	4/26/2001	<0 106	<0 106	<0 106	0 501	<0 106	2 66	0 430	3 59
SV-106-21	HB	4/26/2001	<0.305	<0 305	<0 305	0 720	<0 305	5 74	1 17	7 63
SV-106-22	HB	4/26/2001	<0 108	<0 108	<0 108	0 449	<0 108	2 61	0 410	3 47
SV-106-22 Dup	HB	4/26/2001	<0 101	< 0 101	<0 101	0 475	<0 101	2 52	0 402	3 40
SV-106-23	HB	4/26/2001	<0 0545	<0 0545	<0 0545	0 271	<0 0545	1 540	0 220	2 03
SV-106-24	HB	4/26/2001	<0 107	<0 107	<0 107	0 364	<0.107	2 33	0 372	3 07
SV-106-25	HB	4/26/2001	<0.0533	<0 0533	<0 0533	0 246	<0.0533	1.54	0 242	2 03

BG - Blue Gill TS - Thread Fin Shad < - Indicates as undetected value

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 2001

Number         & Number           SV-532-01         BG           SV-532-02         LB           SV-532-03         LB           SV-532-04         LB           SV-532-04         LB           SV-532-05         LB           SV-532-06         LB           SV-532-08         LB           SV-532-08         LB           SV-532-09         LB           SV-532-10         LB           SV-532-10         LB           SV-532-12         TF           SV-532-13         LB           SV-532-14         HB           SV-532-14         HB           SV-532-14         HB           SV-532-15         HB           SV-532-15         HB					7/30 II CHANINION I 10100 II 1				Iolai
	er Sampled	1016	1221	1232	1242	1248	1254	1260	— PCB - μg/g
	4/17/2001	<0.0513	<0.0513	<0.0513	<0.0513	<0 0513	0 306	0 0627	0 369
	4/17/2001	<0.0550	<0 0550	<0.0550	<0.0550	<0.0550	0 226	<0.0550	0 226
	4/17/2001	<0.0541	<0 0541	<0 0541	0 115	<0 0541	0 722	0 101	0 938
	4/17/2001	<0 0524	<0 0524	<0.0524	<0 0524	<0 0524	0 159	<0 0524	0 159
	4/17/2001	<0 0546	<0 0546	<0 0546	<0 0546	<0 0546	0 163	<0 0546	0 163
	4/17/2001	<0 103	<0 103	<0 103	<0 103	<0 103	1 05	0 185	1 24
	4/17/2001	<0.0506	<0 0506	<0.0506	<0.0506	<0.0506	0 183	<0.0506	0 183
	4/17/2001	<0.0518	<0.0518	<0.0518	<0.0518	<0.0518	0 239	9690 0	0 3 0 9
	4/17/2001	<0.0513	<0.0513	<0.0513	< 0.0513	<0.0513	0.812	0 174	986 0
	4/17/2001	<0.0538	<0.0538	<0.0538	<0.0538	<0.0538	1 38	0 297	1 68
	4/17/2001	<0.0506	<0 0506	<0 0506	<0.0506	<0 0506	0 646	0 119	0 765
	4/17/2001	<0.0553	<0.0553	<0.0553	<0 0553	<0.0553	0 628	0 124	0 752
	4/17/2001	<0.0521	<0.0521	<0 0521	< 0 0521	<0.0521	0 691	0 115	908 0
	4/17/2001	<0 0531	<0.0531	<0 0531	<0.0531	<0 0531	0 5 5 0	<0 0531	0 550
	4/18/2001	<0.0512	<0 0512	<0.0512	<0.0512	<0.0512	0 479	0 0739	0 553
	4/18/2001	<0.217	<0.217	<0 217	0 594	<0 217	3 25	0 425	4 27
	4/18/2001	<0.210	<0.210	<0.210	0 719	<0.210	3 64	0.517	4 88
	4/18/2001	<0 216	<0 216	<0 216	0 612	<0.216	3 26	0 478	4 35
	4/18/2001	<0.163	<0 163	<0 163	0 540	<0 163	2 48	0 315	3 34
	4/18/2001	<0110	<0 110	<0110	0 366	<0 110	191	0 2 6 0	2 54
	4/18/2001	<0.105	<0 105	<0 105	0 283	<0 105	1 56	0 2 2 0	2 06
	4/20/2001	<0 107	<0 107	<0 107	0 134	<0 107	1 14	0 148	1 42
SV-532-20 HB	4/18/2001	<0 104	<0 104	<0 104	<0.104	<0 104	0 955	0 136	1 09
	4/18/2001	<0.107	<0 107	<0 107	0 174	<0 107	1 33	0 182	1 69
	4/18/2001	<0 165	<0 165	<0 165	0 369	<0.165	2.75	0 402	3 52
	4/18/2001	<0.0550	<0.0550	<0.0550	> 0 206	<0 0550	1 09	0 150	1 45
	4/18/2001	<0.0516	<0.0516	<0.0516	0 139	<0.0516	1 46	0.216	1 82
Dup	4/18/2001	<0 0542	<0 0542	<0.0542	0 0955	<0 0542	1 05	0 133	1 28
	4/18/2001	<0 0543	<0 0543	<0 0543	0.0564	<0.0543	0 504	<0.0543	0950
SV-532-26 CC	4/18/2001	<0 0542	<0 0542	<0 0542	<0 0542	<0 0542	808 0	0 128	0 936
SV-532-27 GS	4/19/2001	<0 0545	<0 0545	<0.0545	0 125	<0 0545	141	0 223	1 76

LMB - Large Mouth Bass H HB - Hybrid Bass CC - Catfish GS - Gisard Shad

BG - Blue Gill TS - Thread Fin Shad < - Indicates as undetected value

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 2001

Sample	Species	Date			Aroc	Aroclor Identification- ug/g	tion- ug/g			Total
Number	& Number	Sampled	1016	1221	1232	1242	1248	1254	1260	— PCB - µg/g
SV-535-01	НВ	4/20/2001	<0 0543	<0.0543	<0 0543	0 104	<0 0543	0 920	0 128	
SV-535-02	CC	4/19/2001	<0 0554	<0 0554	<0 0554	<0 0554	<0 0554	0 626	0 136	0 762
SV-535-02 Dup	သ	4/19/2001	<0 0533	<0.0533	<0 0533	<0 0533	<0.0533	0 546	0 129	0 675
SV-535-03	LB	4/19/2001	<0 0542	<0 0542	<0 0542	<0 0542	<0 0542	0 2 0 0	<0 0542	0 200
SV-535-04	LB	4/19/2001	<0 0530	<0 0530	<0 0530	<0.0530	<0 0530	0 166	<0.0530	0 166
SV-535-04 Dup	LB	4/19/2001	<0 0554	<0.0554	<0.0554	<0 0554	<0.0554	0 164	<0.0554	0 164
SV-535-05	LB (A)	4/19/2001	<0 0551	<0 0551	<0.0551	<0.0551	<0 0551	0 228	<0 543	0 228
SV-535-06	LB	4/19/2001	<0 0554	<0 0554	<0 0554	<0 0554	<0 0554	0 161	<0 0554	0 161
SV-535-07	LB	4/19/2001	<0 0543	<0 0543	<0 0543	< 0 0543	<0 0543	0 136	<0.0543	0 136
SV-535-08	LB	4/19/2001	<0 0555	<0.0555	<0.0555	<0.0555	<0 0555	0 0735	<0.0555	0 0735
SV-535-09	LB	4/19/2001	<0 0553	<0 0553	<0.0553	<0.0553	<0.0553	0 120	0.0571	0 177
SV-535-10	LB	4/19/2001	<0 0551	<0 0551	<0.0551	<0.0551	<0.0551	0 2 0 9	0 0565	0 266
SV-535-11	LB	4/27/2001	<0 0507	<0 0507	<0.0507	<0 0507	<0.0507	<0 0507	<0 0507	0000
SV-535-12	LB	4/19/2001	<0 0549	<0 0549	<0 0549	<0 0549	<0 0549	0 218	<0 0549	0 218
SV-535-13	CC	4/19/2001	<0 0542	<0 0542	<0 0542	0 0674	<0 0542	1 50	0 300	1 87
SV-535-14	CC	4/19/2001	< 0 0539	< 0 0539	< 0 0539	< 0.0539	< 0.0539	0 799	0 195	0 994
SV-535-15	သ	4/19/2001	< 0 0541	< 0 0541	< 0 0541	< 0 0541	< 0 0541	0 177	< 0 0541	0 177
SV-535-16	HB	4/19/2001	< 0 0507	< 0 0507	< 0 0507	< 0 0507	< 0.0507	0 504	990 0	0 570
SV-535-17	НВ	4/27/2001	< 0 266	< 0 266	< 0 266	0 586	< 0 266	3 82	0 556	4 96
SV-535-18	HB	4/19/2001	< 0 0513	< 0 0513	< 0.0513	0 170	< 0.0513	1 17	0 153	1 49
SV-535-19	HB	4/19/2001	<0 166	<0 166	<0 166	0 595	<0 166	3 140	0 499	4 23
SV-535-20	HB	4/20/2001	<0 206	<0 206	<0 206	999 0	<0 206	3 76	0 530	4 96
SV-535-21	НВ	4/20/2001	<0 108	<0 108	<0 108	0 132	<0.108	1 32	0 187	1 64
SV-535-22	НВ	4/20/2001	<0 105	<0 105	<0 105	0 335	<0 105	2 19	0 307	2 83
SV-535-23	HB	4/20/2001	<0 107	<0 107	<0 107	0 298	<0 107	1 470	0 213	1 98
SV-535-24	НВ	4/20/2001	<0 333	<0 333	<0 333	0.831	<0 333	4 99	0920	6 58

LMB - Large Mouth Bass HB - Hybrid Bass CC - Catfish GS - Gisard Shad

BG - Blue Gill
TS - Thread Fin Shad
< - Indicates as undetected value

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 2001

1254         1260           0 496         0 162           0 0052         0 0552           1 0 126         0 0918           2 0 0722         0 0549           3 0 0722         0 0549           4 0 1010         0 0549           5 0 1010         0 0531           6 0 0537         0 0530           7 < 0 0537         0 0540           8 0 0986         0 0679           9 0 0540         0 0540           1 < 0 0530         0 0540           1 < 0 0547         0 0554           1 < 0 0547         0 0554           1 < 0 0547         0 0554           1 < 0 0547         0 0554           1 < 0 0547         0 0554           1 < 0 0547         0 0554           1 < 0 0540         0 0554           1 < 0 0547         0 0554           1 < 0 0549         0 0613           1 < 0 0549         0 0632           1 < 0 0764         0 0549           1 < 0 0764         0 0539           1 < 0 0764         0 0538           1 < 0 0764         0 0538           1 < 0 0764         0 0538           1 < 0 0774         0 0539 <td< th=""><th>Sample</th><th>Species</th><th>Date</th><th></th><th></th><th>Aroc</th><th>Aroclor Identification- ug/g</th><th>tion- ug/g</th><th></th><th></th><th>Total</th></td<>	Sample	Species	Date			Aroc	Aroclor Identification- ug/g	tion- ug/g			Total
LB         4/19/2001         <0.0541         <0.0541         <0.0542         <0.0542         <0.0542         <0.0552         <0.0552         <0.0552         <0.0552         <0.0552         <0.0552         <0.0552         <0.0552         <0.0552         <0.0552         <0.0552         <0.0553         <0.0553         <0.0554         <0.0554         <0.0554         <0.0553         <0.0553         <0.0553         <0.0553         <0.0553         <0.0553         <0.0553         <0.0553         <0.0553         <0.0553         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554	mber	& Number	Sampled	1016	1221		1242	1248	1254	1260	PCB - µg/g
LB         4/19/2001         <0.0552         <0.0552         <0.0552         <0.0552         <0.0553         <0.0554         <0.0554         <0.0534         <0.0534         <0.0534         <0.0534         <0.0534         <0.0534         <0.0534         <0.0534         <0.0534         <0.0534         <0.0539         <0.0539         <0.0559         <0.0559         <0.0559         <0.0559         <0.0559         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <	-642-01	LB	4/19/2001	<0 0541	<0 0541	<0 0541	<0 0541	<0.0541	0 496	0 162	0 658
LB         4/19/2001         <0.0534         <0.0534         <0.0534         <0.0534         <0.0534         <0.0536         <0.0528         <0.0528         <0.0528         <0.0528         <0.0529         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537         <0.0537	7-642-02	LB	4/19/2001	<0 0552	<0.0552	<0 0552	<0 0552	<0 0552	<0 0552	<0.0552	00 0
LB         4/19/2001         <0.0528         <0.0528         <0.0528         <0.0528         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0549         <0.0547         <0.0547         <0.0547         <0.0547         <0.0547         <0.0547         <0.0547         <0.0547         <0.0547         <0.0547         <0.0547         <0.0547         <0.0543         <0.0543         <0.0543         <0.0543         <0.0540         <0.0540         <0.0540         <0.0540         <0.0540         <0.0540         <0.0540         <0.0540         <	7-642-03	LB	4/19/2001	<0 0534	<0 0534	<0 0534	<0 0534	<0 0534	0 126	0 0918	0 218
LB         4/19/2001         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0547         < 0.0537         < 0.0537         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0537         < 0.0537         < 0.0534         < 0.0534         < 0.0537         < 0.0537         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534	7-642-04	LB	4/19/2001	<0 0528	<0 0528	<0 0528	<0 0528	<0 0528	0 0722	0 0566	0 129
LB         4/19/2001         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534         < 0.0534	7-642-05	LB	4/19/2001	<0 0549	<0 0549	<0 0549	<0 0549	<0 0549	9200	<0 0549	0 0 0 7 6
LB         4/19/2001         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0537         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0547         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554	7-642-06	LB	4/19/2001	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	0 1010	<0 0534	0 101
LB         4/19/2001         <0.0547         <0.0547         <0.0547         <0.0547         <0.0547         <0.0547         <0.0547         <0.0547         <0.0543         <0.0543         <0.0543         <0.0543         <0.0543         <0.0543         <0.0543         <0.0543         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0530         <0.0540         <0.0540         <0.0540         <0.0540         <0.0540         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0554         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <	7-642-07	LB	4/19/2001	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	000
LB         4/19/2001         <0 0543         <0 0543         <0 0543         <0 0540         <0 0540         0 0679           LB         4/19/2001         <0 0530	/-642-08	LB	4/19/2001	<0 0547	<0 0547	<0 0547	<0 0547	<0 0547	<0 0547	<0.0547	00 0
LB         4/19/2001         < 0.0530         < 0.0530         < 0.0530         < 0.0530         < 0.0530         < 0.0530         < 0.0530         < 0.0530         < 0.0530         < 0.0530         < 0.0530         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0540         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554         < 0.0554	7-642-09	LB	4/19/2001	< 0 0543	<0 0543	<0 0543	<0 0543	<0 0543	9860 0	6290 0	0 167
LB         4/19/2001         < 0 0540         < 0 0540         < 0 0540         < 0 0540         < 0 0540         < 0 0540         < 0 0540         < 0 0540         < 0 0540         < 0 0540         < 0 0540         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0554         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536         < 0 0536	7-642-10	LB	4/19/2001	<0 0530	<0 0530	<0 0530	<0 0530	<0 0530	<0.0530	<0.0530	00 0
CC         4/19/2001         <0 0554         <0 0554         <0 0554         <0 0554         <0 0554         <0 0554         <0 0554         <0 0554         <0 0554         <0 0554         <0 0554         <0 0554         <0 0554         <0 0554         <0 0554         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0537         <0 0537         <0 0537         <0 0537         <0 0537         <0 0537         <0 0537         <0 0537         <0 0537         <0 0537         <0 0537         <0 0537         <0 0539         <0 0539         <0 0539         <0 0539         <0 0539         <0 0539         <	'-642-10 Dup	LB	4/19/2001	<0 0540	<0.0540	<0 0540	<0 0540	<0.0540	<0 0540	<0 0540	000
HB         4/20/2001         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0551         <0 0552         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <0 0536         <	7-642-11	CC	4/19/2001	<0 0554	<0 0554	<0.0554	<0 0554	<0 0554	<0.0554	<0.0554	00 0
HB         4/20/2001         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0536         <0.0613         <0.0613         <0.0513         <0.0519         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0219         <0.0211         <0.0211         <0.0211         <0.0211         <0.0211         <0.0211         <0.0211         <0.0211         <0.0219         <0.0219         <	′-642-12	HB	4/20/2001	<0 0551	<0.0551	<0.0551	<0.0551	<0.0551	0 0847	<0.0551	0 0847
HB         4/20/2001         < 0 0536         < 0 0536         < 0 0536         < 0 0536         0 0634         0 0744	7-642-13	HB	4/20/2001	<0 0536	<0.0536	<0 0536	<0 0536	<0.0536	0 791	0 137	0 928
HB         4/20/2001         <0.542         <0.542         <0.6542         <0.6542         <0.6542         <0.6542         <0.6542         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.642         <0.641         <0.644         <0.644         <0.644         <0.644         <0.644         <0.644         <0.644         <0.746         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.776         <0.777         <0.777         <0.777         <0.	-642-14	HB	4/20/2001	<0 0536	<0 0536	<0 0536	<0 0536	<0 0536	0 385	0 0613	0 446
HB         4/20/2001         < 0 219         < 0 219         < 0 219         0 541         < 0 219         3 41         0 525           Dup         HB         4/20/2001         < 0 314	′-642-15	HB	4/20/2001	<0 542	<0 542	<0 542	0 0624	<0 542	0 820	0 108	66 0
HB         4/20/2001         <0.314         <0.314         <0.314         6.896         <0.314         5.32         0.776           Dup         HB         4/20/2001         <0.317	7-642-16	HB	4/20/2001	< 0 219	< 0 219	< 0 219	0 541	< 0.219	3 41	0 525	4 48
Dup         HB         4/20/2001         <0317         <0317         <0317         <0317         <0885         <0317         552         0801           HB         4/20/2001         <00517	-642-17	HB	4/20/2001	<0 314	<0.314	<0314	968 0	<0 314	5 32	922 0	66 9
HB         4/20/2001         <0 0517         <0 0517         0 101         <0 0517         1 12         0 148           CC         4/20/2001         <0 0524	7-642-17 Dup	HB	4/20/2001	<0 317	<0317	<0 317	0 885	<0 317	5 52	0 801	7 21
CC         4/20/2001         <0 6524         <0 6524         <0 6524         <0 6524         <0 6524         <0 6524         <0 6524         <0 6524         <0 6524         <0 6524         <0 6524         <0 6632         <0 6632           CC         4/20/2001         <0 6539	-642-18	HB	4/20/2001	<0.0517	<0.0517	<0.0517	0 101	<0.0517	1 12	0 148	1 37
CC         4/20/2001         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0549         < 0.0539         < 0.0539         < 0.0539         < 0.0539         < 0.0539         < 0.0539         < 0.0539         < 0.0539         < 0.0539         < 0.0539         < 0.0539         < 0.0539         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538         < 0.0538	-642-19	CC	4/20/2001	<0 0524	<0 0524	<0 0524	<0 0524	<0 0524	0 48	0 0632	0 543
CC         4/20/2001         <0 0539         <0 0539         <0 0539         <0 0539         <0 0539           CC         4/20/2001         <0 0538         <0 0538         <0 0538         <0 0538         <0 124         <0 0538           HB         4/25/2001         <0 101         <0 101         <0 101         <0 101         2 82         0 478           HB         4/25/2001         <0 0525         <0 0525         <0 0525         0 114         <0 0525         1 03         0 132           HB         4/25/2001         <0 109         <0 109         <0 109         <0 109         0 477         <0 109         3 05         0 617	-642-20	သ	4/20/2001	<0 0549	<0 0549	<0 0549	<0 0549	<0 0549	0 0764	<0.0549	0 0764
CC         4/20/2001         <0 0538         <0 0538         <0 0538         <0 0538         0 124         <0 0538           HB         4/25/2001         <0 101	'-642-20 Dup	CC	4/20/2001	<0 0539	<0 0539	<0 0539	<0.0539	<0.0539	0 0712	<0.0539	0 0712
HB         4/25/2001         <0 101         <0 101         0 451         <0 101         2 82         0 478           HB         4/25/2001         <0 0525	7-642-21	CC	4/20/2001	<0 0538	<0.0538	<0 0538	<0.0538	<0.0538	0 124	<0.0538	0 124
HB 4/25/2001 <0.0525 <0.0525 0.114 <0.0525 1.03 0.132 1.03 HB 4/25/2001 <0.109 <0.109 <0.109 0.477 <0.109 3.05 0.617 4	/-642-22	HB	4/25/2001	< 0 101	<0 101	<0 101	0 451	<0 101	2 82	0 478	3.75
HB 4/25/2001 <0 109 <0 109 <0 109 0 477 <0 109 3 05 0 617	7-642-23	HB	4/25/2001	< 0.0525	<0 0525	<0 0525	0 114	<0 0525	1 03	0 132	1 28
	7-642-24	HB	4/25/2001	<0 109	<0.109	<0 109	0 477	<0 109	3 05	0 617	4 14

LMB - Large Mouth Bass HB - Hybrid Bass CC - Catfish GS - Gisard Shad

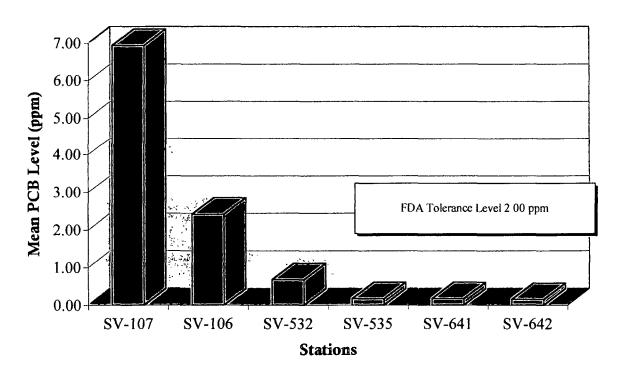
BG - Blue Gill TS - Thread Fin Shad <- Indicates as undetected value

Table 5 2001 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Largemouth Bass

Replicate	Sample					
Number	SV-107	SV-106	SV-532	SV-535	SV-641	SV-642
01	5.49	4.45 d	0.226	0.200	0.195 d	0.658
02	2.15	3.86	0.938	0.165 d	0.0954	< 0.0552 *
03	9.03	2.6	0.16 d	0.228	0.0595	0.218
04	8.08	1.37	1.24	0.161	< 0.0546 *	0.129
05	2.83	5.02	0.183	0.136	0.104	0.076
06	3.01	1.45	0.309	0.074	< 0.0543 *	0.101
07	2.86 d	1.83	1.33 d	0.177	0.0537	< 0.0537 *
08	13	1.63	0.765	0.266	0.0746	< 0.0547 *
09	5.78	0.624	0.752	< 0.0507 *	0.82	0.167
10	17.1	1.21	0.806	0.218	0.1820	< 0.02675 *d
Mean	6.93	2.40	0.67	0.17	0.16	0.14
Std. Dev.	4.96	1.52	0.43	0.07	0.23	0.19

<sup>\*</sup>One half of the detection limit is used for the averaging value.

## Largemouth Bass



d = duplicate, average of duplicate and value is used for averaging value

Table 6 2001 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Hybrid Bass

Replicate	Sample					
Number	SV-107	SV-106	SV-532	SV-535	SV-641	SV-642
01	8.54	3.05	4.575 d	1.15	0.32	0.0847
02	5.900	4.55	4.35	0.57	3.83	0.928
03	6.81	2.74	3.34	4.96	3.78	0.446
04	6.87	2.03	2.54	1.49	0.89 d	0.99
05	5.64	4.78	2.06	4.23	4.29	4.48
06	3.98	3.59	1.42	4.96	1.14	7.100 d
07	8.00	7.63	1.09	1.64	3.32	1.37
08	3.91	3.435 d	1.69	2.83	0.342	3.75
09	7.00	2.03	3.52	1.98	4.04	1.28
10		3.07	1.45	6.58	3.1	4.14
11		2.03				····
Mean	6.29	3.54	2.60	3.04	2.51	2.46
Std. Dev.	1.61	1.65	1.27	2.01	1.63	2.28

<sup>\*</sup>One half of the detection limit is used for the averaging value

d = duplicate, average of duplicate and value is used for averaging value

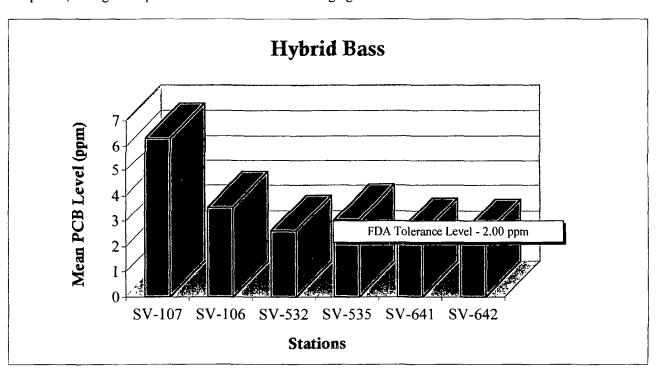
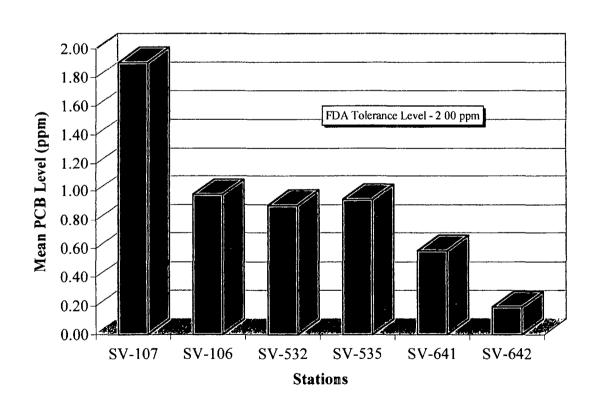


Table 7 2001 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Channel Catfish

Replicate	Station					
Number	SV-107	SV-106	SV-532	SV-535	SV-641	SV-642
01	3.95 d	0.71	0.553	0.72 d	0.785 d	< 0.0518 *
02	1.93	1.27	1.55 d	1.87	0.284	0.543
03	1.13	1.44	0.56	0.994	0.865	0.07 d
04	0.611	0.468	0.936	0.177	0.403	0.124
Mean	1.91	0.97	0.90	0.94	0.58	0.19
Std. Dev.	1.47	0.46	0.47	0.71	0.28	0.23

d = duplicate, average of duplicate and value is used for averaging value

## **Channel Catfish**



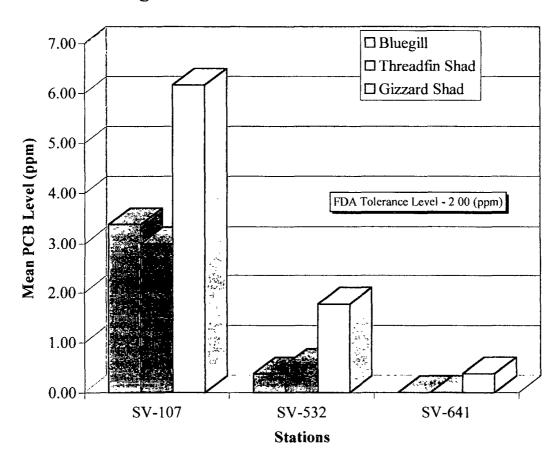
<sup>\*</sup>One half of the detection limit is used for the averaging value

Table 8 2001 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Bluegill, Threadfin Shad, and Gizzard Shad Composites

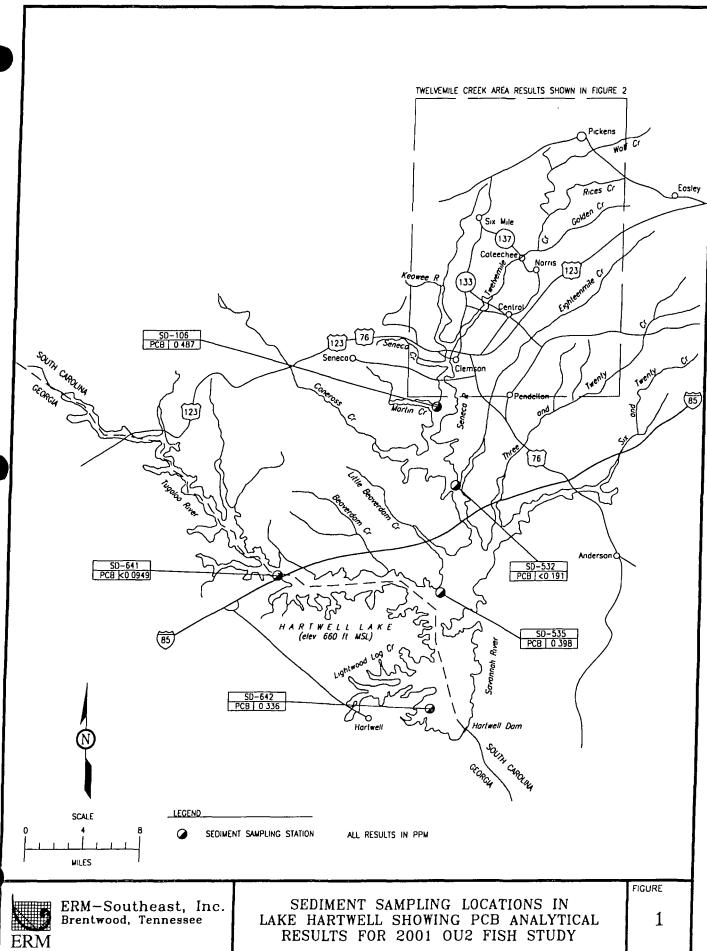
Species	Station					
Composite	SV-107	SV-106	SV-532	SV-535	SV-641	SV-642
Bluegill	3.37	NA	0.369	NA	<0.0550 *	NA
Threadfin Shad	2.99	NA	0.55	NA	<0.0514 *	NA
Gizzard Shad	6.16	NA	1.76	NA	0.37	NA

d = duplicate

## Bluegill, Threadfin Shad, and Gizzard Shad

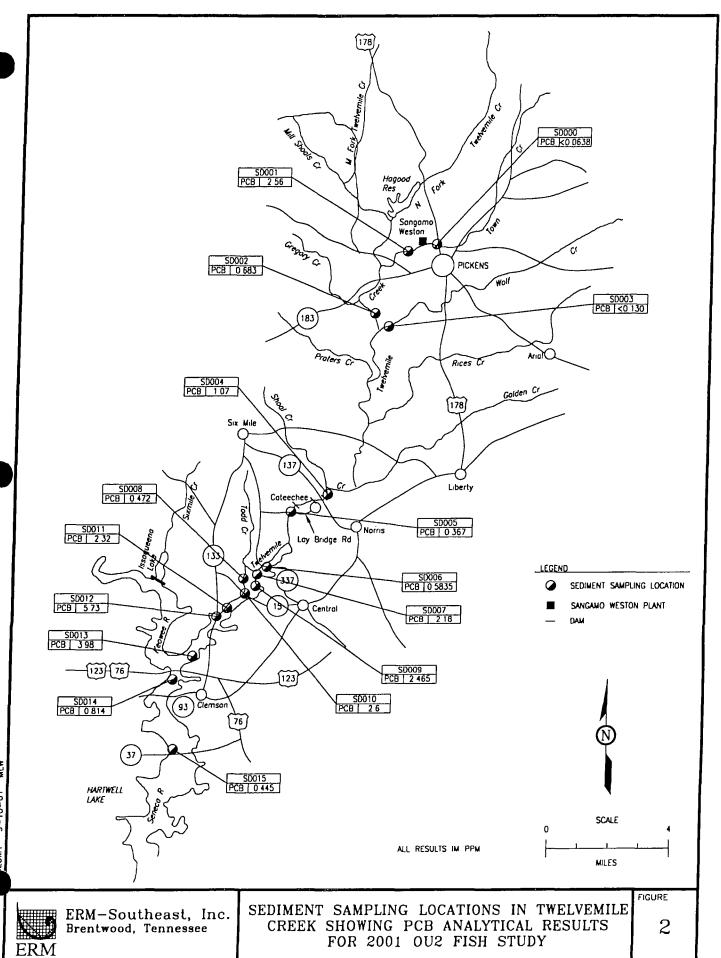


<sup>\*</sup>One half of the detection limit is used for the averaging value



9-10-01

4517D112A



4517D114A

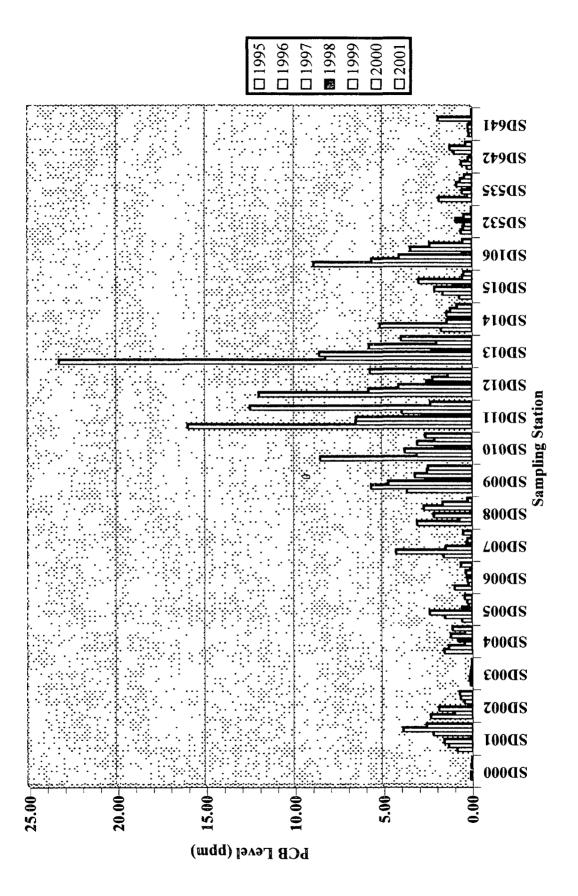
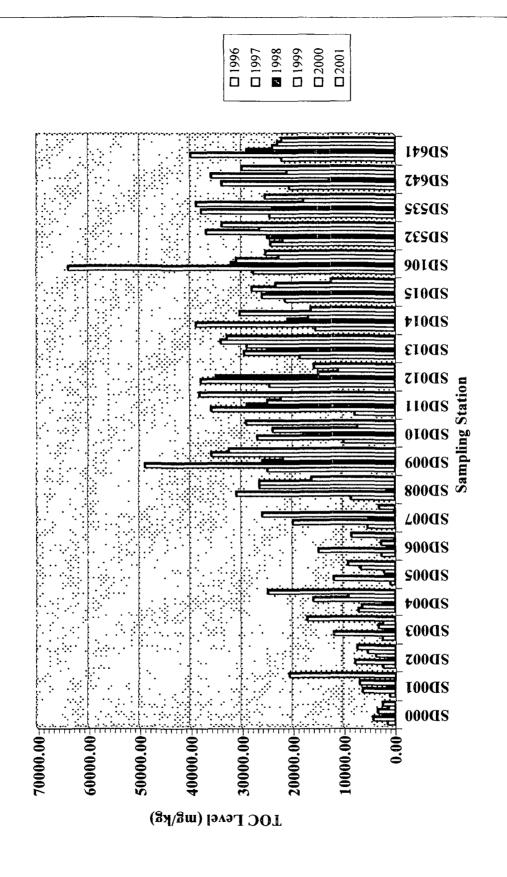
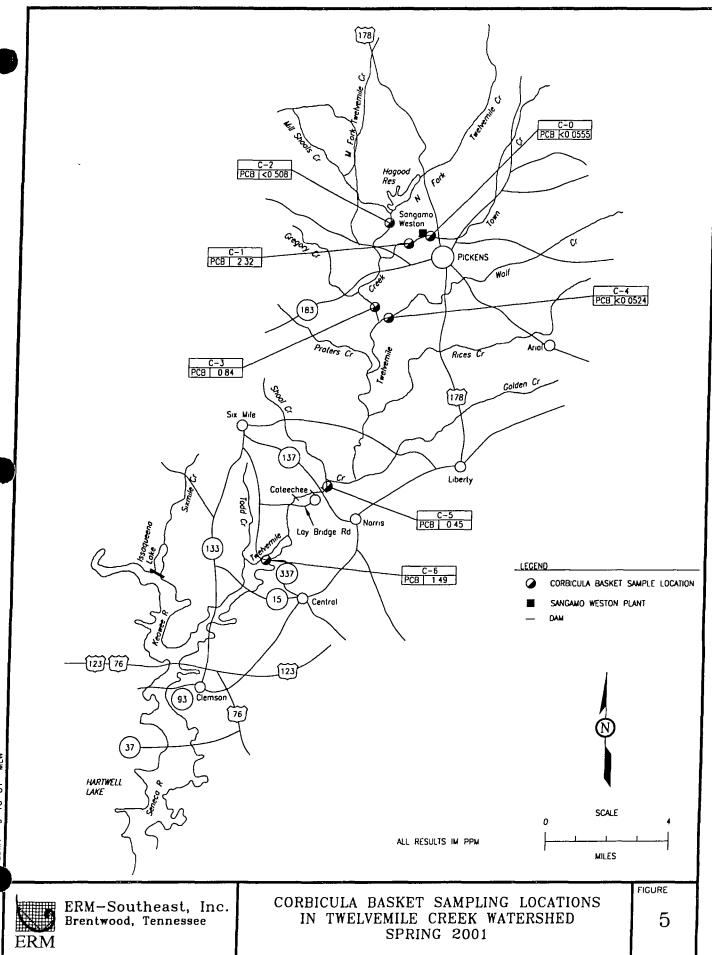


Figure 3 PCB Levels in Sediment Samples (1995-2001), Lake Hartwell OU2 Fish Study





4517D115A

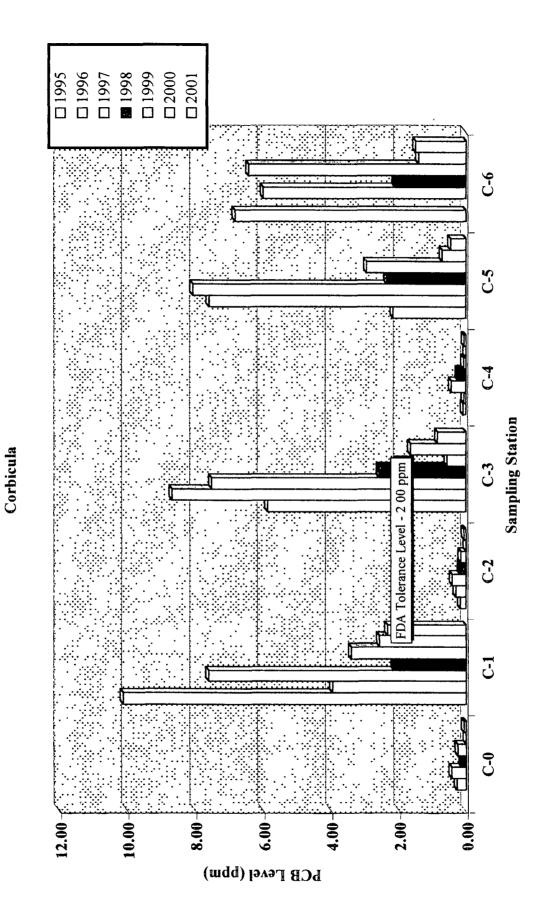
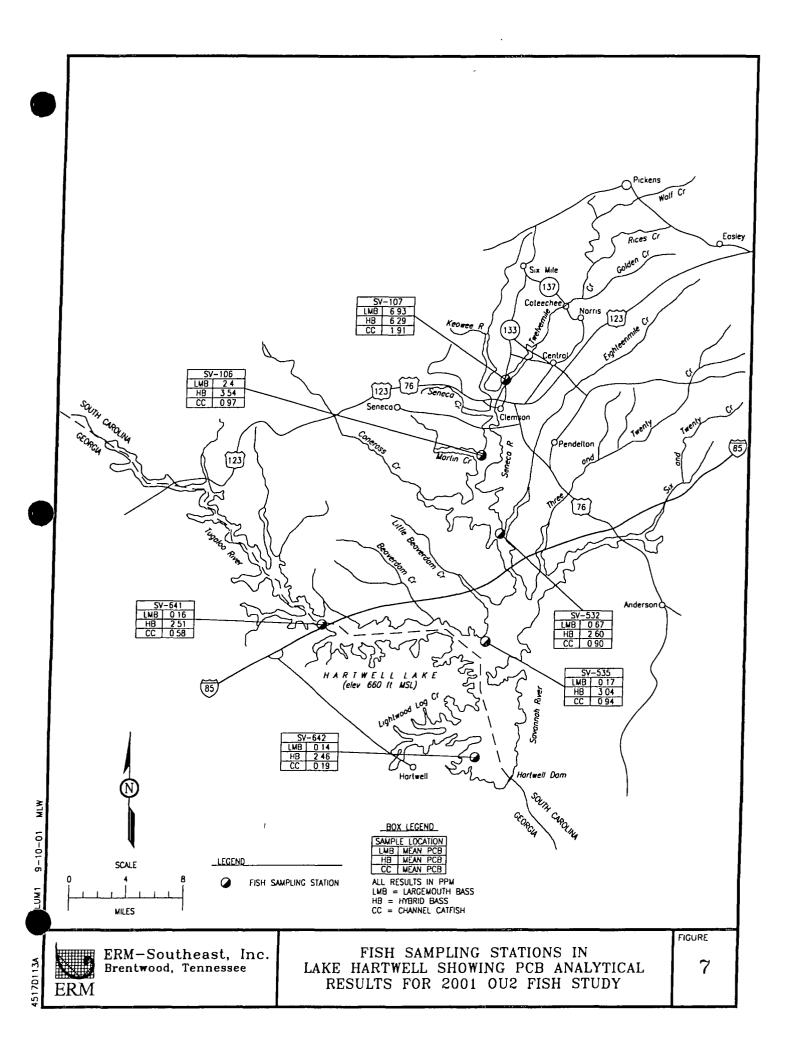


Figure 6 PCB Levels in Corbicula Composite Samples (1995-2001), Lake Hartwell OU2 Fish Study



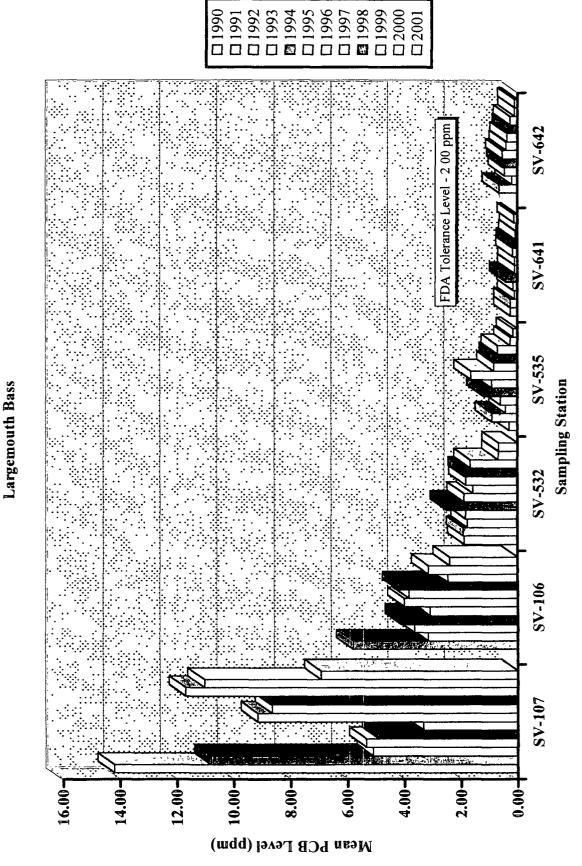


Figure 8 PCB Levels in Largemouth Bass Fillet Samples (1990-2001), Lake Hartwell OU2 Fish Study

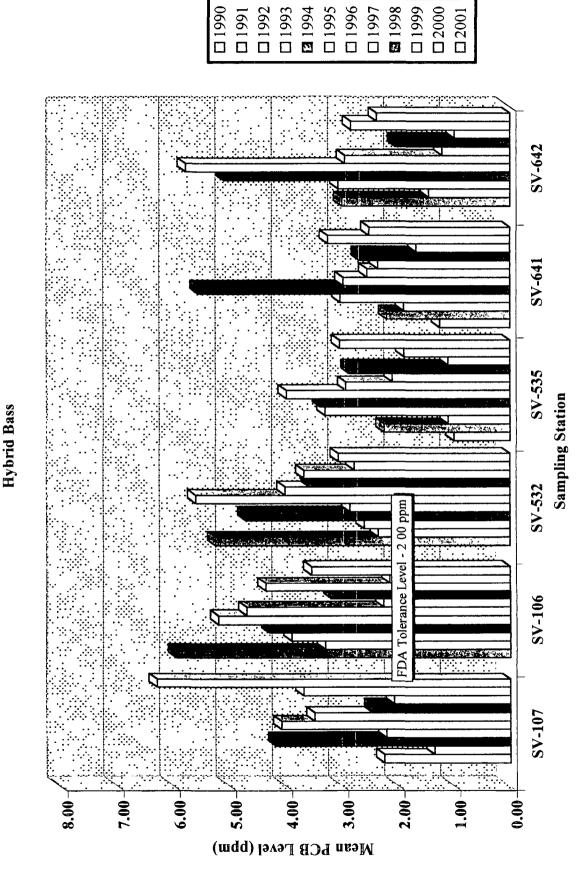


Figure 9 PCB Levels in Hybrid Bass Fillet Samples (1990-2001), Lake Hartwell OU2 Fish Study

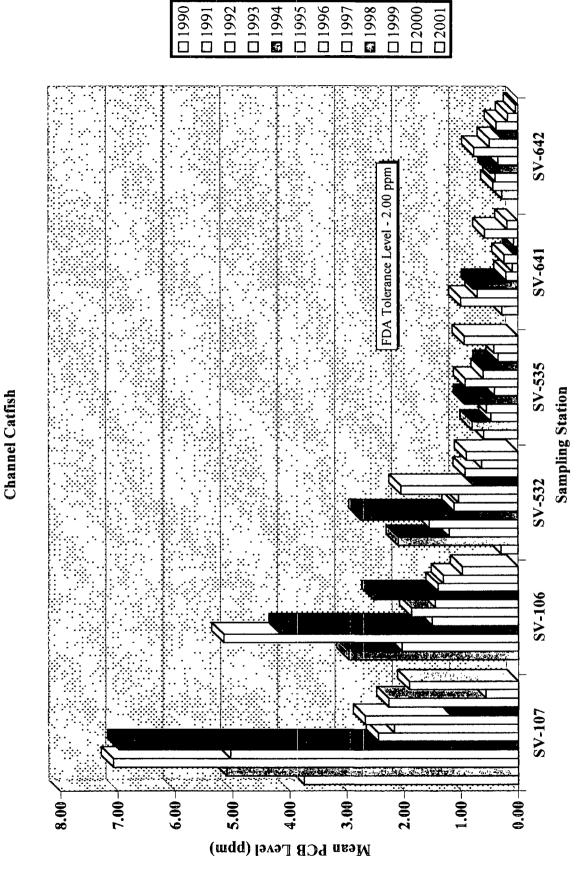
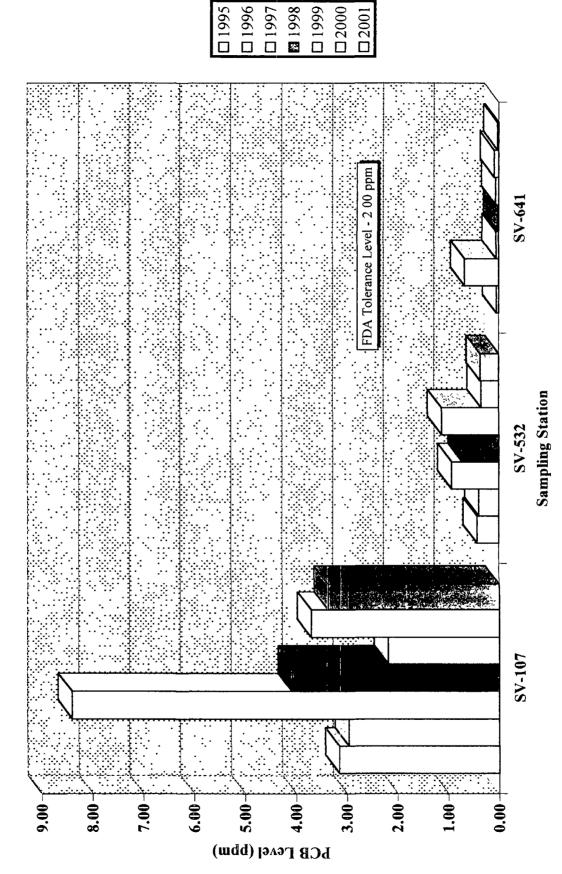


Figure 10 PCB Levels in Channel Catfish Fillet Samples (1990-2001), Lake Hartwell OU2 Fish Study



Bluegill

Figure 11 PCB Levels in Bluegill Composite Samples (1995-2001), Lake Hartwell OU2 Fish Study

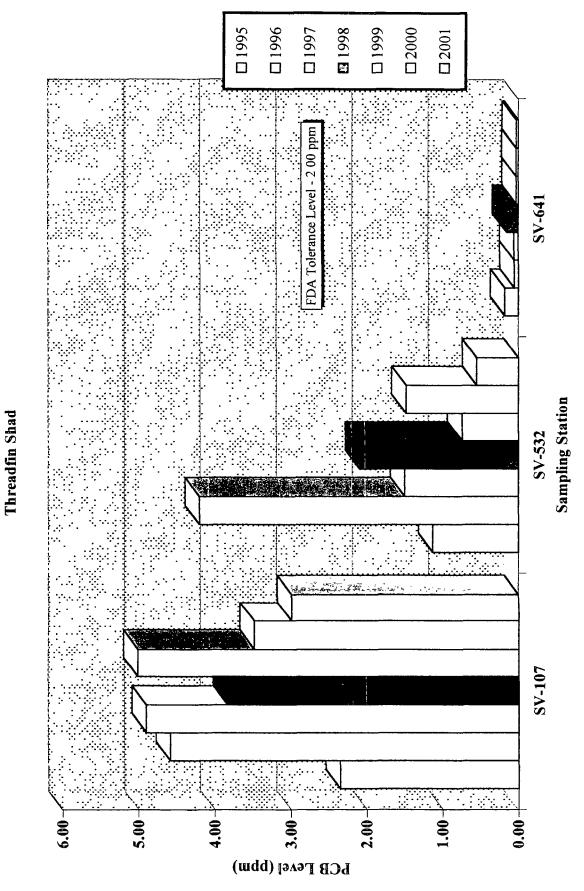


Figure 12 PCB Levels in Threadfin Shad Composite Samples (1995-2001), Lake Hartwell OU2 Fish Study

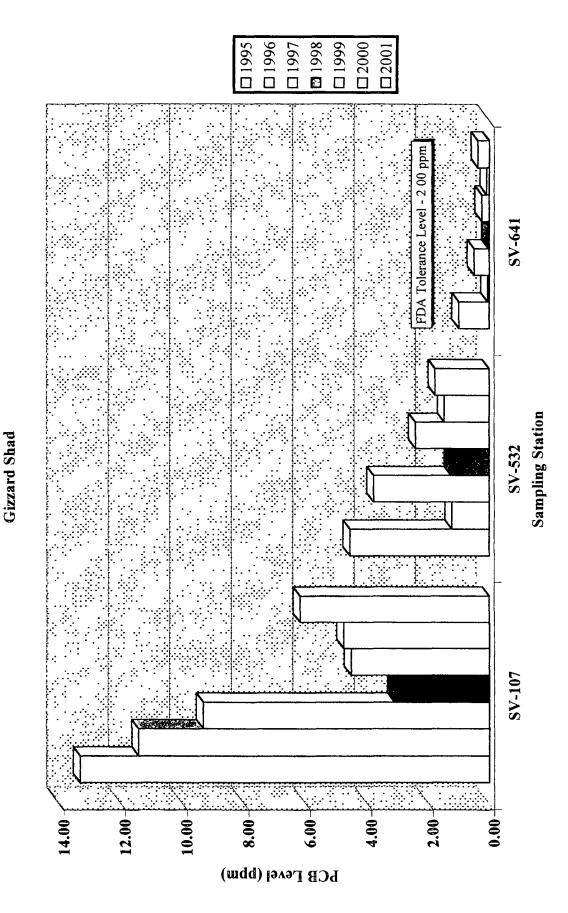
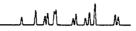


Figure 13 PCB Levels in Gizzard Shad Composite Samples (1995-2001), Lake Hartwell OU2 Fish Study

Appendix A Sediment Analytical Data Sheets





2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/11/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

MATRIX:

**SEDIMENT** 

**DATE SAMPLED: 04/26/2001** 

DATE RECEIVED:

04/28/2001 TIME: 11:30

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

NEA ID	CUSTOMER ID	PARAMETER PERFORMED	МЕТНОО	RESULTS	PQL	UNITS	DATE TESTED
AE02798	SD-001	Total Organic Carbon	SW-846 9060/Lloyd Kahn	20700	3340	mg/kg	5/9/01
AE02799	SD-000	Total Organic Carbon	SW-846 9060/Lloyd Kahn	2310	1440	mg/kg	5/9/01
AE02800	SD-002	Total Organic Carbon	SW-846 9060/Lloyd Kahn	7400	3950	mg/kg	5/9/01
02801	SD-003	Total Organic Carbon	SW-846 9060/Lloyd Kahn	17200	4240	mg/kg	5/9/01
₩£02802	SD-004	Total Organic Carbon	SW-846 9060/Lloyd Kahn	24900	3690	mg/kg	5/9/01
AE02803	SD-005	Total Organic Carbon	SW-846 9060/Lloyd Kahn	9150	3280	mg/kg	5/9/01
AE02804	SD-006	Total Organic Carbon	SW-846 9060/Lloyd Kahn	7450	3200	mg/kg	5/10/01
AE02805	SD106	Total Organic Carbon	SW-846 9060/Lloyd Kahn	25300	7870	mg/kg	5/10/01
AE02806	SD532	Total Organic Carbon	SW-846 9060/Lloyd Kahn	33900	4760	mg/kg	5/10/01
AE02807	SD0061	Total Organic Carbon	SW-846 9060/Lloyd Kahn	9540	3950	mg/kg	5/10/01

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

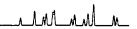
THORIZED SIGNATURE

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

A. Chis Byros

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**MATRIX:** 

**SEDIMENT** 

**DATE SAMPLED:** 04/25/2001

DATE RECEIVED:

04/27/2001 **TIME:** 10 30

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

NEA ID	CUSTOMER ID	PARAMETER PERFORMED	METHOD	RESULTS	PQL	UNITS	DATE TESTED
AE02788	SD-007	Total Organic Carbon	SW-846 9060/Lloyd Kahn	3000	2460	mg/kg	5/3/01
AE02789	SD-008	Total Organic Carbon	SW-846 9060/Lloyd Kahn	16300	3110	mg/kg	5/3/01
AE02790	SD-009	Total Organic Carbon	SW-846 9060/Lloyd Kahn	35700	12800	mg/kg	5/3/01
∆E02791	SD0091	Total Organic Carbon	SW-846 9060/Lloyd Kahn	29500	11000	mg/kg	5/3/01
AE02792	SD010	Total Organic Carbon	SW-846 9060/Lloyd Kahn	29200	5690	mg/kg	5/3/01
AE02793	SD011	Total Organic Carbon	SW-846 9060/Lloyd Kahn	38300	10100	mg/kg	5/3/01
AE02794	SD012	Total Organic Carbon	SW-846 9060/Lloyd Kahn	15800	3840	mg/kg	5/3/01
AE02795	SD013	Total Organic Carbon	SW-846 9060/Lloyd Kahn	32900	6040	mg/kg	5/3/01
AE02796	SD014	Total Organic Carbon	SW-846 9060/Lloyd Kahn	16500	4810	mg/kg	5/3/01
AE02797	SD015	Total Organic Carbon	SW-846 9060/Lloyd Kahn	12500	5090	mg/kg	5/3/01

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

UTHORIZED SIGNATURE

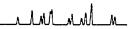
Northeast Analytical Inc

Robert E Wagner Laboratory Director

4. Chis Expres

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

This report may not be reproduced except in full, without the written approval of Northeast Analytical, Inc.



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/11/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**MATRIX:** 

**SEDIMENT** 

**DATE SAMPLED: 04/27/2001** 

DATE RECEIVED:

05/01/2001

**TIME:** 10 00

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

**LOCATION:** 

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

NEA ID	CUSTOMER ID	PARAMETER PERFORMED	METHOD	RESULTS	PQL	UNITS	DATE TESTED
AE02899	SD-535	Total Organic Carbon	SW-846 9060/Lloyd Kahn	25500	2360	mg/kg	5/10/01
AE02900	SD-641	Total Organic Carbon	SW-846 9060/Lloyd Kahn	30000	3090	mg/kg	5/10/01
AE02901	SD-642	Total Organic Carbon	SW-846 9060/Lloyd Kahn	22200	2550	mg/kg	5/10/01

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

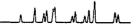
UTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

Chis Elemos



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

**CUSTOMER ID:** 

SD-000

NEA ID:

AE02799

MATRIX:

SEDIMENT

**DATE SAMPLED:** 04/26/2001

**TIME:** 11 00

DATE RECEIVED:

04/28/2001

TIME: 11 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE LESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0638	μg/g	5/12/01	
Aroclor 1221	ND	0 0638	μg/g	5/12/01	
oclor 1232	N.D	0 0638	μg/g	5/12/01	
oclor 1242	ND	0 0638	μg/g	5/12/01	
Aroclor 1248	ND	0 0638	μg/g	5/12/01	
Aroclor 1254	ND	0 0638	μg/g	5/12/01	
Aroclor 1260	ND	0 0638	μg/g	5/12/01	

Note There were several non-target peaks

Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rober I. Wogn

0.00

μg/g



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SD-001

NEA ID:

AE02798

**MATRIX:** 

**SEDIMENT** 

**DATE SAMPLED: 04/26/2001** 

**TIME:** 11 20

DATE RECEIVED:

04/28/2001 TIME: 1130

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls		'		
Aroclor 1016	ND	0.124	μg/g	5/12/01	
Aroclor 1221	ND	0 124	μg/g	5/12/01	
clor 1232	ND	0 124	μg/g	5/12/01	
oclor 1242	1 86	0 124	μg/g	5/12/01	AD
Aroclor 1248	ND	0 124	μg/g	5/12/01	
Aroclor 1254	0 699	0 124	μg/g	5/12/01	AF
Aroclor 1260	ND	0 124	μg/g	5/12/01	

Total PCB Amount > Reporting Limit

2 56 μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were several non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober I. Wogn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SD-002

**NEA ID:** 

AE02800

**MATRIX:** 

**SEDIMENT** 

**DATE SAMPLED: 04/26/2001** 

**TIME:** 12 10

DATE RECEIVED:

04/28/2001

TIME: 11 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0742 5/12/01 μg/g Aroclor 1221 ND 0 0742 μg/g 5/12/01 clor 1232 ND 0 0742 5/12/01 μg/g oclor 1242 0.192 0 0742 AD, DF 5/12/01 μg/g Aroclor 1248 ND 0 0742 μg/g 5/12/01 0 491 Aroclor 1254 0 0742 5/12/01 AF  $\mu g/g$ Aroclor 1260 ND 0 0742 5/12/01 μg/g

Total PCB Amount > Reporting Limit

0 683 μg/g

777 155

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

DF-The Aroclor pattern exhibited by this sample has a diminished front end pattern compared to an Aroclor standard

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/16/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SD-003

**NEA ID:** 

AE02801

**MATRIX:** 

**SEDIMENT** 

**DATE SAMPLED:** 04/26/2001

TIME: 12 40

DATE RECEIVED:

04/28/2001

**TIME: 1130** PROJECT: FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 130	μg/g	5/12/01	
Aroclor 1221	ND	0 130	μ <u>g</u> /g	5/12/01	
lor 1232	ND	0 130	μg/g	5/12/01	
A. clor 1242	ND	0 130	μg/g	5/12/01	
Aroclor 1248	ND	0 130	μg/g	5/12/01	
Aroclor 1254	ND	0 130	μg/g	5/12/01	
Aroclor 1260	ND	0 130	μg/g	5/12/01	
Aroclor 1260					

Total PCB Amount > Reporting Limit

0.00

μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

Robert E. Wogn



CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SD-004

NEA ID:

AE02802

MATRIX:

SEDIMENT

**DATE SAMPLED:** 04/26/2001

4/26/2001 **TIME:** 13.00

DATE RECEIVED:

04/28/2001

**TIME:** 11 30

**PROJECT:** 

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 138	μg/g	5/12/01	
Aroclor 1221	ND	0 138	μg/g	5/12/01	
clor 1232	ND	0 138	μg/g	5/12/01	
Coclor 1242	0 303	0 138	μg/g	5/12/01	AD, DF
Aroclor 1248	ND	0 138	μg/g	5/12/01	
Aroclor 1254	0 765	0 138	μg/g	5/12/01	AF
Aroclor 1260	ND	0 138	μg/g	5/12/01	

Total PCB Amount > Reporting Limit

107 μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

DF-The Aroclor pattern exhibited by this sample has a diminished front end pattern compared to an Aroclor standard

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

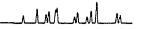
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robert E. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SD-005

NEA ID:

AE02803

MATRIX:

SEDIMENT

**DATE SAMPLED:** 04/26/2001

TIME: 13 20

DATE RECEIVED:

04/28/2001

**TIME:** 11 30 **PR** 

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls		,		- 100
Aroclor 1016	ND	0 0771	μg/g	5/12/01	
Aroclor 1221	ND	0 0771	μg/g	5/12/01	
clor 1232	ND	0 0771	μg/g	5/12/01	
Loclor 1242	0 136	0 0771	μg/g	5/12/01	AD, DF
Aroclor 1248	ND	0 0771	μg/g	5/12/01	
Aroclor 1254	0 231	0 0771	μg/g	5/12/01	AF
Aroclor 1260	ND	0 0771	μg/g	5/12/01	

Total PCB Amount > Reporting Limit

0 367 μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

DF-The Aroclor pattern exhibited by this sample has a diminished front end pattern compared to an Aroclor standard

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

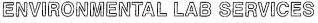
**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

ert E Wagner, Laboratory Director

Rhot I. Wagn

### NORTHEAST ANALYTICAL \_\_lM\_nM\_n\_



2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

CUSTOMER ID:

SD-006

NEA ID:

AE02804

MATRIX:

**SEDIMENT** 

**DATE SAMPLED: 04/26/2001** 

**TIME:** 13 45

DATE RECEIVED:

04/28/2001

**TIME:** 1130 PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlo	rinated Biphenyls		. "			
Aroclor 1016	ND	0.0854	μg/g	5/12/01		
Aroclor 1221	ND	0.0854	μg/g	5/12/01		
clor 1232	ND	0 0854	μg/g	5/12/01		
Aroclor 1242	0 335	0 0854	μg/g	5/12/01	AD, EF	
Aroclor 1248	ND	0 0854	μg/g	5/12/01		
Aroclor 1254	0 371	0 0854	μg/g	5/12/01	AF	
Aroclor 1260	ND	0 0854	μg/g	5/12/01		

Total PCB Amount > Reporting Limit

0.706 μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

EF-The Aroclor 1242 pattern exhibited by this sample has an enhanced front end pattern compared to an Aroclor 1242 standard

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

rt E Wagner, Laboratory Director

Rhot I. Worm



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID: SD0061 N

SD0061 **NEA ID:** AE02807

MATRIX: SEDIMENT DATE SAMPLED: 04/26/2001 TIME: N/A

**DATE RECEIVED:** 04/28/2001 **TIME:** 11 30 **PROJECT:** FISH STUDY

SAMPLED BY: J ORR LOCATION: CLEMSON SC

CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls ND Aroclor 1016 0 0751 μg/g 5/12/01 Aroclor 1221 ND 0 0751 5/12/01 μg/g ND clor 1232 0 0751 5/12/01 μg/g oclor 1242 0 2 1 3 0 0751 5/12/01 AD, EF  $\mu g/g$ Aroclor 1248 ND 0.0751 μg/g 5/12/01 0.248 Aroclor 1254 0 0751 5/12/01 AF μg/g Aroclor 1260 ND 0 0751 5/12/01 μg/g

Total PCB Amount > Reporting Limit 0 461 μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

EF-The Aroclor 1242 pattern exhibited by this sample has an enhanced front end pattern compared to an Aroclor 1242 standard

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were several non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robert I Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/16/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SD-007

NEA ID:

AE02788

**MATRIX:** 

SEDIMENT

DATE SAMPLEU: 04/25/2001

TIME: 13.00

DATE RECEIVED:

04/27/2001

TIME: 1030

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0591	μg/g	5/11/01	
Aroclor 1221	ND	0 0591	μg/g	5/11/01	
clor 1232	ND	0 0591	μg/g	5/11/01	
Anoclor 1242	0 151	0 0591	μg/g	5/11/01	AD, EF
Aroclor 1248	ND	0 0591	μg/g	5/11/01	
Aroclor 1254	, 0 0673	0 0591	μg/g	5/11/01	AF
Aroclor 1260	ND	0 0591	μg/g	5/11/01	

Total PCB Amount > Reporting Limit

0218

μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

EF-The Aroclor 1242 pattern exhibited by this sample has an enhanced front end pattern compared to an Aroclor 1242 standard

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

ert E Wagner, Laboratory Director

RAD I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SD-008

NEA ID:

AE02789

**MATRIX:** 

**SEDIMENT** 

DATE RECEIVED:

PROJECT:

**FISH STUDY** 

**TIME:** 13 15

SAMPLED BY:

04/27/2001

J ORR

TIME: 10 30

LOCATION:

**DATE SAMPLED: 04/25/2001** 

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0727	μg/g	5/11/01	
Aroclor 1221	ND	0 0727	μg/g	5/11/01	
Nor 1232	ND	0 0727	μg/g	5/11/01	
Acclor 1242	0 251	0 0727	μg/g	5/11/01	AD, EF
Aroclor 1248	ND	0 0727	μg/g	5/11/01	
Aroclor 1254	0 221	0 0727	μg/g	5/11/01	AF
Aroclor 1260	ND	0 0727	μg/g	5/11/01	

Total PCB Amount > Reporting Limit

0 472

μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

EF-The Aroclor 1242 pattern exhibited by this sample has an enhanced front end pattern compared to an Aroclor 1242 standard

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

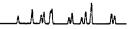
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober E. Worm



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SD-009

NEA ID:

AE02790

**MATRIX:** 

**SEDIMENT** 

**DATE SAMPLED: 04/25/2001** 

**TIME: 1330** 

DATE RECEIVED:

04/27/2001

**TIME:** 10 30

PROJECT:

**FISH STUDY CLEMSON SC** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls			•	
Aroclor 1016	ND	0 142	μg/g	5/15/01	
Aroclor 1221	ND	0 142	μg/g	5/15/01	
clor 1232	ND	0 142	μg/g	5/15/01	
-Loclor 1242	1 19	0.142	µg/g	5/15/01	AD
Aroclor 1248	ND	0 142	μg/g	5/15/01	
Aroclor 1254	1 38	0 142	μg/g	5/15/01	AF
Aroclor 1260	ND	0 142	μg/g	5/15/01	

Total PCB Amount > Reporting Limit

2 57 μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

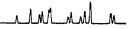
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

ert E Wagner, Laboratory Director

Rho I. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SD0091

NEA ID:

AE02791

MATRIX:

SEDIMENT

**DATE SAMPLED: 04/25/2001** 

4/25/2001 **TIME:** N/A

DATE RECEIVED:

04/27/2001

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

**PQL** UNITS PARAMETER PERFORMED RESULTS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 134 5/11/01 μg/g Aroclor 1221 ND 0 134 5/11/01 μg/g pclor 1232 ND 0 134 μg/g 5/11/01 Toclor 1242 5/11/01 **AD** 1 05 0 134 μg/g Aroclor 1248 ND 0 134 μg/g 5/11/01 Aroclor 1254 131 0 134 μg/g 5/11/01 AF Aroclor 1260 ND 0 134 5/11/01 μg/g

Total PCB Amount > Reporting Limit

2 36

**TIME:** 10 30

μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an aftered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

bert E. Wagner, Laboratory Director

RHD I. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**CUSTOMER ID:** 

SD010

NEA ID:

AE02792

**MATRIX:** 

SEDIMENT

**DATE SAMPLED: 04/25/2001** 

**TIME:** 13 50

DATE RECEIVED:

04/27/2001

TIME: 10 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				· · · · · · · · · · · · · · · · · · ·
Aroclor 1016	ND	0 126	μg/g	5/11/01	
Aroclor 1221	ND	0.126	μg/g	5/11/01	
clor 1232	ND	0 126	μg/g	5/11/01	
Coclor 1242	1 37	0.126	μg/g	5/11/01	AD, EF
Aroclor 1248	ND	0 126	μg/g	5/11/01	
Aroclor 1254	1 23	0.126	μg/g	5/11/01	AF
Aroclor 1260	ND	0 126	μg/g	5/11/01	

Total PCB Amount > Reporting Limit

2 60 μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

EF-The Aroclor 1242 pattern exhibited by this sample has an enhanced front end pattern compared to an Aroclor 1242 standard

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

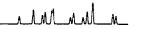
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

ert E Wagner, Laboratory Director

Rober E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID:

SD011

NEA ID:

AE02793

MATRIX:

SEDIMENT

**DATE SAMPLED:** 04/25/2001

0.1/0.5/000

DATE RECEIVED:

04/27/2001

**TIME:** 10 30

PROJECT:

FISH STUDY

**TIME:** 14 10

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polych	lormated Biphenyls					
Aroclor 1016	ND	0 146	μg/g	5/11/01		
Aroclor 1221	ND	0 146	μg/g	5/11/01		
clor 1232	ND	0 146	μg/g	5/11/01		
Aroclor 1242	1 17	0 146	μg/g	5/11/01	AD	
Aroclor 1248	ND	0 146	μg/g	5/11/01		
Aroclor 1254	1 15	0 146	μg/g	5/11/01	AF	
Aroclor 1260 -	ND	0 146	μg/g	5/11/01		

Total PCB Amount > Reporting Limit

2 32 µg

μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

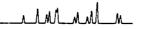
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

rt E Wagner, Laboratory Director

Robert E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SD012

NEA ID:

AE02794

**MATRIX:** 

**SEDIMENT** 

**DATE SAMPLED: 04/25/2001** 

**TIME: 14-20** 

DATE RECEIVED:

04/27/2001

TIME: 10 30

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 212	μg/g	5/11/01	
Aroclor 1221	ND	0 212	μg/g	5/11/01	
clor 1232	ND	0 212	μg/g	5/11/01	
moclor 1242	4 27	0 212	μg/g	5/11/01	AD
Aroclor 1248	ND	0 212	μg/g	5/11/01	
Aroclor 1254	1 46	0 212	μg/g	5/11/01	AF
Aroclor 1260	ND	0 212	μg/g	5/11/01	

Total PCB Amount > Reporting Limit

5.73

μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

rt E Wagner, Laboratory Director

Rober I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SD013

NEA ID:

AE02795

**MATRIX:** 

**SEDIMENT** 

**DATE SAMPLED:** 04/25/2001

**TIME: 14 35** 

DATE RECEIVED:

04/27/2001

TIME: 10.30

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls			<del></del>	
Aroclor 1016	ND	0.148	μg/g	5/11/01	
Aroclor 1221	ND	0.148	μg/g	5/11/01	
lor 1232	ND	0 148	μg/g	5/11/01	
Anoclor 1242	2 83	0 148	μg/g	5/11/01	AD, EF
Aroclor 1248	ND	0 148	μg/g	5/11/01	
Aroclor 1254	1 15	0 148	μg/g	5/11/01	AF
Aroclor 1260	ND	0 148	μg/g	5/11/01	
T I DOD A S D S S S	. 2.00	,			

Total PCB Amount > Reporting Limit

3 98

μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

EF-The Aroclor 1242 pattern exhibited by this sample has an enhanced front end pattern compared to an Aroclor 1242 standard

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were several non-target peaks

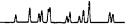
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL POL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

E Wagner, Laboratory Director

Rober I. Worm



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SD014

NEA ID:

AE02796

**MATRIX:** 

SEDIMENT

**DATE SAMPLED: 04/25/2001** 

**TIME:** 15 00

DATE RECEIVED:

04/27/2001

**TIME:** 10 30 PROJECT:

LOCATION:

FISH STUDY **CLEMSON SC** 

**SAMPLED BY: CUSTOMER PO:**  J ORR N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rınated Biphenyls	<b>t</b>	-		
Aroclor 1016	ND	0 119	μg/g	5/11/01	
Aroclor 1221	ND	0 119	μg/g	5/11/01	
clor 1232	ND	0 119	μg/g	5/11/01	
moclor 1242	0 507	0.119	μg/g	5/11/01	AD
Aroclor 1248	ND	0 119	μg/g	5/11/01	
Aroclor 1254	0 307	0 119	μg/g	5/11/01	AF
Aroclor 1260	ND	0 119	μg/g	5/11/01	

Total PCB Amount > Reporting Limit

0.814 μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were several non-target peaks

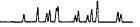
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

rt E Wagner, Laboratory Director

Rht I. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SD015

NEA ID:

AE02797

**MATRIX:** 

SEDIMENT

**DATE SAMPLED: 04/25/2001** 

04/27/2001

**TIME:** 10 30 PROJECT: **FISH STUDY** 

**TIME: 1530** 

SAMPLED BY:

DATE RECEIVED:

J. ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 118 5/11/01 μg/g Aroclor 1221 ND 0 118 5/11/01 μg/g clor 1232 ND 0 118 5/11/01 μg/g octor 1242 0 2 0 4 0 118 μg/g 5/11/01 AD Aroclor 1248 ND 0 118 5/11/01 μg/g Aroclor 1254 0.241 0 118 5/11/01 AF μg/g Aroclor 1260 ND 0 118 5/11/01 μg/g

Total PCB Amount > Reporting Limit

0.445

μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were several non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

TE Wagner, Laboratory Director

Rito E. Wogn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SD106

NEA ID:

AE02805

MATRIX:

SEDIMENT

**DATE SAMPLED:** 04/26/2001

SEDIMEN

PROJECT:

FISH STUDY

**TIME: 15 45** 

SAMPLED BY:

DATE RECEIVED:

04/28/2001 J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 153	μg/g	5/12/01	
Aroclor 1221	ND	0 153	µg/g	5/12/01	
clor 1232	ND	0 153	μg/g	5/12/01	
Aroclor 1242	0 181	0 153	μg/g	5/12/01	AD
Aroclor 1248	ND	0 153	μg/g	5/12/01	
Aroclor 1254	0 306	0 153	μg/g	5/12/01	AF
Aroclor 1260	ND	0 153	$\mu g/g$	5/12/01	

Total PCB Amount > Reporting Limit

 $0.487 \mu g/g$ 

TIME: 1130

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were several non-target peaks

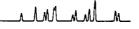
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

rt E Wagner, Laboratory Director

Rober I. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> **CERTIFICATE OF ANALYSIS** 05/16/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SD532

NEA ID:

AE02806

**MATRIX:** 

**SEDIMENT** 

**DATE SAMPLED: 04/26/2001** 

**TIME: 16 45** 

DATE RECEIVED:

04/28/2001

TIME: 1130

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 191	μg/g	5/12/01	
Aroclor 1221	ND	0 191	μg/g	5/12/01	
clor 1232	ND	0 191	μg/g	5/12/01	
Aroclor 1242	ND	0 191	μg/g	5/12/01	
Aroclor 1248	ND	0 191	μg/g	5/12/01	
Aroclor 1254	ND	0 191	μg/g	5/12/01	
Aroclor 1260	ND	0 191	μg/g	5/12/01	

Total PCB Amount > Reporting Limit

0 00

μg/g

Note There were several non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

rt E Wagner, Laboratory Director

RAD I. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SD-535

**NEA ID:** 

AE02899

**MATRIX:** 

**SEDIMENT** 

**DATE SAMPLED: 04/27/2001** 

TIME: N/A

DATE RECEIVED:

05/01/2001

TIME: 10 00 PROJECT: **FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls			· · · · · · · · · · · · · · · · · · ·	
Aroclor 1016	ND	0 101	μg/g	5/15/01	
Aroclor 1221	ND	0 101	μg/g	5/15/01	
clor 1232	ND	0 101	μg/g	5/15/01	
oclor 1242	0 172	0 101	μg/g	5/15/01	AD, DF
Aroclor 1248	ND	0 101	μg/g	5/15/01	
Aroclor 1254	0 226	0 101	μg/g	5/15/01	AF
Aroclor 1260	ND	0 101	μg/g	5/15/01	

Total PCB Amount > Reporting Limit

0.398

μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

DF-The Aroclor pattern exhibited by this sample has a diminished front end pattern compared to an Aroclor standard

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were several non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

n E Wagner, Laboratory Director

RHD I. Wogn





ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

**CUSTOMER ID:** 

SD-641

NEA ID:

AE02900

**MATRIX:** 

SEDIMENT

**DATE SAMPLED: 04/27/2001** 

TIME: N/A

DATE RECEIVED:

05/01/2001

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 142 5/15/01 μg/g Aroclor 1221 ND 0 142 5/15/01 μg/g 0 142 ND 5/15/01 rlor 1232 μg/g 0 142 clor 1242 0 157 5/15/01 AD, DF μg/g ND 0 142 5/15/01 Aroclor 1248 μg/g 0 179 0 142 5/15/01 AF Aroclor 1254 μg/g ND 0 142 5/15/01 Aroclor 1260 µg/g

Total PCB Amount > Reporting Limit

0 336

TIME: 10 00

μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

DF-The Aroclor pattern exhibited by this sample has a diminished front end pattern compared to an Aroclor standard

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were several non-target peaks

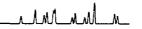
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

**CERTIFICATE OF ANALYSIS** 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SD-642

NEA ID:

AE02901

**MATRIX:** 

**SEDIMENT** 

**DATE SAMPLED: 04/27/2001** 

TIME: N/A

DATE RECEIVED:

05/01/2001

**TIME:** 10 00 PROJECT:

FISH STUDY **CLEMSON SC** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls		·		
Aroclor 1016	ND	0 0949	μg/g	5/15/01	
Aroclor 1221	ND	0 0949	μg/g	5/15/01	
oclor 1232	ND	0 0949	μg/g	5/15/01	
oclor 1242	ND	0 0949	μg/g	5/15/01	
Aroclor 1248	ND	0.0949	μg/g	5/15/01	
Aroclor 1254	ND	0.0949	μg/g	5/15/01	
Aroclor 1260	ND	0 0949	μg/g	5/15/01	
Total PCB Amount > Reporting Li	mıt 0 00 μ <u>ε</u>	g/g			

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

ert E Wagner, Laboratory Director

Rober E. Wogn

Appendix B Corbicula Analytical Data Sheets



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 06/18/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

C-0

**NEA ID:** 

AE04036

**MATRIX**:

TISSUE

**DATE SAMPLED: 05/29/2001** 

TIME: N/A

DATE RECEIVED:

05/30/2001

TIME: 10 20 PROJECT:

JEC I:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls		······		
Aroclor 1016	ND	0 0555	μg/g	6/12/01	
Aroclor 1221	ND	0 0555	μg/g	6/12/01	
pclor 1232	ND	0 0555	μg/g	6/12/01	
coclor 1242	ND	0 0555	μg/g	6/12/01	
Aroclor 1248	ND	0 0555	μg/g	6/12/01	
Aroclor 1254	ND	0 0555	μg/g	6/12/01	
Aroclor 1260	ND	0 0555	μg/g	6/12/01	
Total PCB Amount > Reporting Lin	mıt 0 00 μ <u>ε</u>	g/g			

Note There were few non-target peaks

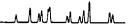
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober I. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

# CERTIFICATE OF ANALYSIS 06/18/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

C-1

NEA ID:

AE04037

MATRIX:

TISSUE

**DATE SAMPLED: 05/29/2001** 

TIME: N/A

DATE RECEIVED:

05/30/2001

**TIME:** 10.20 **PROJ** 

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

RESULTS **PQL** UNITS DATE TESTED **FLAGS** PARAMETER PERFORMED SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 107 6/12/01 μg/g Aroclor 1221 ND 0 107 μg/g 6/12/01 ND 0 107 6/12/01 clor 1232 μg/g 6/12/01 AD acclor 1242 1 73 0 107 μg/g ND Aroclor 1248 0 107  $\mu g/g$ 6/12/01 Aroclor 1254 0 498 0.107 μg/g 6/12/01 AF 0 107 Aroclor 1260 ND 6/12/01 μg/g

Total PCB Amount > Reporting Limit

 $2 23 \mu g/g$ 

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were few non-target peaks

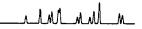
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

rt E Wagner, Laboratory Director

Rober E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 06/18/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228

BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

C-I DUP

NEA ID:

AE04129

**MATRIX:** 

**TISSUE** 

**DATE SAMPLED: 05/29/2001** 

TIME: N/A

DATE RECEIVED:

05/30/2001

**TIME:** 10.20 **PROJECT:** 

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

N/A

LAB ELAP #:

11078

COSTONERTO. NA		EAD ELAI #. 11076			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 108	μg/g	6/12/01	
Aroclor 1221	ND	0 108	μg/g	6/12/01	
pelor 1232	ND	0 108	μg/g	6/12/01	
Aroclor 1242	1 86	0 108	μg/g	6/12/01	A.D
Aroclor 1248	ND	0.108	μg/g	6/12/01	
Aroclor 1254	0 540	0 108	μg/g	6/12/01	AF
Aroclor 1260	ND	0.108	μg/g	6/12/01	
T . I DOD 4	4 2 10	,			

Total PCB Amount > Reporting Limit

‡0 μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

ert E Wagner, Laboratory Director

RAD E. Wogn





(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 06/18/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228** 

**BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

DATE RECEIVED:

C-2

NEA ID:

AE04038

MATRIX:

TISSUE

**DATE SAMPLED: 05/29/2001** 

05/30/2001

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

J ORR N/A

LAB ELAP #:

11078

TIME: N/A

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	inated Biphenyls					
Aroclor 1016	ND	0 0508	μg/g	6/12/01		
Aroclor 1221	ND	0 0508	μg/g	6/12/01		
lor 1232	ND	0 0508	μg/g	6/12/01		
Aclor 1242	ND	0 0508	μg/g	6/12/01		
Aroclor 1248	ND	0 0508	μg/g	6/12/01		
Aroclor 1254	ND	0 0508	μg/g	6/12/01		
Aroclor 1260	ND	0 0508	μg/g	6/12/01		
Total PCB Amount > Reporting Li	mıt 0 00 μ <u>ε</u>	g/g				

**TIME:** 10 20

Note There were few non-target peaks

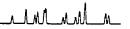
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

E Wagner, Laboratory Director

RAD E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 06/18/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

C-3

NEA ID:

AE04039

**MATRIX:** 

TISSUE

**DATE SAMPLED: 05/29/2001** 

29/2001 **TIME:** N/A

DATE RECEIVED:

05/30/2001

TIME: 10 20 PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

CUSTOMER PO: N/A		LAB E	LAP#:	11078	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorin	ated Biphenyls				
Aroclor 1016	ND	0 0533	μg/g	6/12/01	
Aroclor 1221	ND	0 0533	μg/g	6/12/01	
pelor 1232	ND	0 0533	μg/g	6/12/01	
Aroclor 1242	0 478	0 0533	μg/g	6/12/01	AD
Aroclor 1248	ND	0 0533	μg/g	6/12/01	
Aroclor 1254	0 362	0 0533	μg/g	6/12/01	AF
Aroclor 1260	ND	0 0533	μg/g	6/12/01	

Total PCB Amount > Reporting Limit

0 840 μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were few non-target peaks

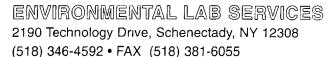
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

ehert E Wagner, Laboratory Director

Robb E. Wogn



#### CERTIFICATE OF ANALYSIS 06/18/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

CONTACT: JIM ORR

**CUSTOMER ID:** 

C-4

NEA ID:

AE04040

MATRIX:

**TISSUE** 

**DATE SAMPLED: 05/29/2001** 

TIME: N/A

DATE RECEIVED:

05/30/2001

**TIME:** 10 20

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0524	μg/g	6/12/01	
Aroclor 1221	ND	0 0524	μg/g	6/12/01	
pelor 1232	ND	0 0524	μg/g	6/12/01	
Loclor 1242	ND	0 0524	μg/g	6/12/01	
Aroclor 1248	ND	0 0524	μg/g	6/12/01	
Aroclor 1254	ND	0 0524	μg/g	6/12/01	
Aroclor 1260	ND	0.0524	μg/g	6/12/01	
Total PCB Amount > Reporting Li	mıt 0 00 με	g/g			

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Rebert E Wagner, Laboratory Director

Rober E. Wogm



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 06/18/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

**CUSTOMER ID:** 

C-5

NEA ID:

AE04041

MATRIX:

TISSUE

**DATE SAMPLED: 05/29/2001** 

TIME: N/A

DATE RECEIVED:

05/30/2001

TIME: 10 20 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

**LOCATION:** 

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychl	orinated Biphenyls					
Aroclor 1016	ND	0 0533	μg/g	6/12/01		
Aroclor 1221	ND	0 0533	μg/g	6/12/01		
oclor 1232	ND	0 0533	μg/g	6/12/01		
oclor 1242	0 147	0 0533	μg/g	6/12/01	AD	
Aroclor 1248	ND	0 0533	μg/g	6/12/01		
Aroclor 1254	0 303	0 0533	μg/g	6/12/01	AF	
Aroclor 1260	ND	0 0533	μg/g	6/12/01		

Total PCB Amount > Reporting Limit

0 450 μg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 06/18/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JJM ORR** 

**CUSTOMER ID:** 

C-6

NEA ID:

AE04042

MATRIX:

**TISSUE** 

**DATE SAMPLED: 05/29/2001** 

05/30/2001

**TIME:** 10 20

PROJECT:

**FISH STUDY** 

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

NIA

LARFIAD#.

11078

CUSTOMER PO: N/A		LAD ELAP #:			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	nated Biphenyls				
Aroclor 1016	ND	0 104	μg/g	6/12/01	
Aroclor 1221	ND	0 104	μg/g	6/12/01	
pelor 1232	ND	0 104	μg/g	6/12/01	
Loclor 1242	0 746	0 104	μg/g	6/12/01	AD
Aroclor 1248	ND	0 104	μg/g	6/12/01	
Aroclor 1254	0 743	0 104	μg/g	6/12/01	AF
Aroclor 1260	ND	0 104	μg/g	6/12/01	
Total PCB Amount > Reporting Lii	nıt 149 μg	g/g			

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rito E. Wogn

Appendix C Fish Analytical Data Sheets





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-1

NEA ID:

AE02297

FISH

**DATE SAMPLED: 04/17/2001** 

**MATRIX:** 

PROJECT:

**FISH STUDY** 

TIME: N/A

**SAMPLED BY:** 

DATE RECEIVED:

04/19/2001

LOCATION:

CLEMSON SC

0110T011D

J ORR

TABELABU

. . . . . .

CUSTOMER PO: N/A		LAB ELAP #:			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 273	μg/g	4/24/01	
Aroclor 1221	ND	0 273	μg/g	4/24/01	
Clor 1232	ND	0 273	μg/g	4/24/01	
Sclor 1242	1 50	0 273	μg/g	4/24/01	PD
Aroclor 1248	ND	0 273	μg/g	4/24/01	
Aroclor 1254	4 08	0 273	μg/g	4/24/01	
Aroclor 1260	0 582	0 273	μg/g	4/24/01	

Total PCB Amount > Reporting Limit

6 16 μg/g

TIME: 11 00

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

Robert E. Wogn



ENVIRONMENTAL LAB SERVICES
2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID:

SV107-2

NEA ID:

AE02298

MATRIX:

FISH

**DATE SAMPLED: 04/17/2001** 

/17/2001 **TIME:** N/A

DATE RECEIVED:

04/19/2001

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls ND Aroclor 1016 0.161 4/24/01 μg/g Aroclor 1221 ND 0 161 4/24/01 μg/g clor 1232 ND 0 161 4/24/01 μg/g clor 1242 0 279 0 161 4/24/01 PD μg/g Aroclor 1248 ND 0 161 4/24/01 μg/g 2 70 Aroclor 1254 0.161 4/24/01 μg/g Aroclor 1260 0 390 0 161 4/24/01 μg/g

Total PCB Amount > Reporting Limit

3 37 μg/g

TIME: 11 00

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

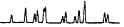
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Robert E. Wagn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 **BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-3

NEA ID:

AE02299

MATRIX:

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00 PROJECT: **FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

		2.13 22.11				
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorina	ted Biphenyls			·		
Aroclor 1016	ND	0 214	μg/g	4/24/01		
Aroclor 1221	ND	0 214	μg/g	4/24/01		
Clor 1232	ND	0 214	μg/g	4/24/01		
Aoclor 1242	0 378	0 214	μg/g	4/24/01	PD	
Aroclor 1248	ND	0 214	μg/g	4/24/01		
Aroclor 1254	4 32	0 214	μg/g	4/24/01		
Aroclor 1260	0 789	0.214	$\mu g/g$	4/24/01		
Total PCB Amount > Reporting Limit	5 49 με	g/g				

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

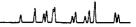
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

rt E Wagner, Laboratory Director

Rho I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**CUSTOMER ID:** 

SV107-4

NEA ID:

AE02300

MATRIX:

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001 **TIME:** 11 00

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 108	μg/g	4/24/01	
Aroclor 1221	ND	0 108	μg/g	4/24/01	
oclor 1232	ND	0 108	μg/g	4/24/01	
aoclor 1242	0 143	0 108	μg/g	4/24/01	PD
Aroclor 1248	ND	0 108	μg/g	4/24/01	
Aroclor 1254	1 64	0 108	μg/g	4/24/01	
Aroclor 1260	0 368	0 108	μg/g	4/24/01	,

Total PCB Amount > Reporting Limit

2 15 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

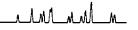
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

bert E Wagner, Laboratory Director

Rober E. Wogn





ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-5

**NEA ID:** 

AE02301

MATRIX:

**FISH** 

**DATE SAMPLED:** 04/17/2001

TIME: N/A

DATE RECEIVED:

04/19/2001

**TIME:** 11 00

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

CHETOMER RO

CUSTOMER PO: N/A		LAB ELAP #:		11078	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls			····	
Aroclor 1016	ND	0 328	μg/g	4/24/01	
Aroclor 1221	ND	0 328	μg/g	4/24/01	
reclor 1232	ND	0 328	μg/g	4/24/01	
Color 1242	1 03	0 328	μg/g	4/24/01	PD
Aroclor 1248	ND	0 328	μg/g	4/24/01	
Aroclor 1254	6 92	0 328	μg/g	4/24/01	
Aroclor 1260	1 08	0 328	μg/g	4/24/01	
Total PCR Amount > Reporting Li	mit 9.03 u.o	1/61			

Total PCB Amount > Reporting Limit

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

POL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rober I. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

**CUSTOMER ID:** 

SV107-6

NEA ID:

AE02302

**MATRIX:** 

cross

**DATE SAMPLED:** 04/17/2001

TIME: N/A

DATE RECEIVED:

FISH

TIME: 11 00

**PROJECT:** 

FISH STUDY

**SAMPLED BY:** 

04/19/2001 J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 212 4/24/01 μg/g Aroclor 1221 ND 0 2 1 2 4/24/01 μg/g ND oclor 1232 0 2 1 2 4/24/01 μg/g clor 1242 ND 0 212 4/24/01 μg/g Aroclor 1248 ND 4/24/01 0 2 1 2 μg/g Aroclor 1254 3 20 0 212 4/24/01 μg/g Aroclor 1260 0 805 0 2 1 2 4/24/01 μg/g

Total PCB Amount > Reporting Limit

4 00

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robert E. Wogn

#### NORTHEAST ANALYTICAL MANALA



2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-6 DUP

NEA ID:

AE02333

MATRIX:

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11.00 PROJECT: **FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED PQL RESULIS UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.220 4/25/01 μg/g Aroclor 1221 ND 0 220 4/25/01 μg/g clor 1232 ND 0.220 4/25/01 μg/g sclor 1242 ND 0 220 4/25/01 μg/g Aroclor 1248 ND 0 220 μg/g 4/25/01 4/25/01 Aroclor 1254 3 14 0.220 μg/g Aroclor 1260 0 748 0 220 4/25/01 μg/g Total PCB Amount > Reporting Limit

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, inc

Robert E Wagner, Laboratory Director

Rhot I. Wogn

3 89

μg/g





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228** 

**BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-7

NEA ID:

AE02303

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/17/2001** 

**TIME: 11.00** PROJECT: **FISH STUDY** 

DATE RECEIVED:

04/19/2001

**CLEMSON SC** 

TIME: N/A

**SAMPLED BY:** CUSTOMER PO: J ORR

N/A

LOCATION: LAB ELAP #:

11078

OCCIONALITY OF THE		2.12 2		11070		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	unated Biphenyls		,		·	
Aroclor 1016	ND	0 109	μg/g	4/24/01		
Aroclor 1221	ND	0 109	μg/g	4/24/01		
Clor 1232	ND	0 109	μg/g	4/24/01		
Sclor 1242	0 223	0 109	μg/g	4/24/01	PD	
Aroclor 1248	ND	0 109	μg/g	4/24/01		
Aroclor 1254	1 44	0 109	μg/g	4/24/01		
Aroclor 1260	0 267	0 109	µg/g	4/24/01		

Total PCB Amount > Reporting Limit

1 93

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

RHD I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 06/19/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-8

**NEA ID:** 

AE02304

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0545 6/11/01 μg/g Aroclor 1221 ND 0 0545 6/11/01 μg/g ND eclor 1232 0 0545 6/11/01 μg/g clor 1242 0 0578 0 0545 6/11/01 PD μg/g Aroclor 1248 ND 0 0545 6/11/01 μg/g Aroclor 1254 0.803 0 0545 6/11/01 μg/g Aroclor 1260 0 268 0 0545 6/11/01 μg/g

Total PCB Amount > Reporting Limit

1 13 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

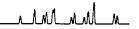
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD I. Wom



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

DATE RECEIVED:

SV107-9

NEA ID:

AE02484

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

TIME: 1100

PROJECT:

**FISH STUDY** 

SAMPLED BY:

04/19/2001 J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATETESTED	FLAGS
SW-846 Method 8082, Polychlorinat	ed Biphenyls				
Aroclor 1016	ND	0 166	μg/g	4/26/01	
Aroclor 1221	ND	0 166	μg/g	4/26/01	
oclor 1232	ND	0 166	μg/g	4/26/01	
oclor 1242	0 666	0 166	μg/g	4/26/01	PD
Aroclor 1248	ND	0 166	μg/g	4/26/01	
Aroclor 1254	2 12	0 166	μg/g	4/26/01	
Aroclor 1260	0 208	0 166	μg/g	4/26/01	
Total PCB Amount > Reporting Limit	2 99 μg/	'g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robb I. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV107-10

NEA ID:

AE02415

MATRIX:

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

TIME: 10 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				**
Aroclor 1016	ND	0 362	μg/g	4/26/01	
Aroclor 1221	ND	0 362	μg/g	4/26/01	
clor 1232	ND	0 362	μg/g	4/26/01	
clor 1242	0 708	0 362	μg/g	4/26/01	PD
Aroclor 1248	ND	0 362	μg/g	4/26/01	
Aroclor 1254	5 55	0 362	μg/g	4/26/01	
Aroclor 1260	1 82	0 362	μg/g	4/26/01	
Total DCD Assessed S Demonstrate La	0.00	1-			

Total PCB Amount > Reporting Limit

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

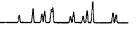
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical Inc

Robert E Wagner Laboratory Director

RAD E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV107-11

NEA ID:

AE02416

**MATRIX:** 

FISH

**DATE SAMPLED: 04/18/2001** 

1/18/2001 **TIME:** N/A

DATE RECEIVED:

04/20/2001

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls ND Aroclor 1016 0 108 4/26/01 μg/g Aroclor 1221 ND 0 108 μg/g 4/26/01 clor 1232 ND 0 108 4/26/01 μg/g oclor 1242 0 151 0 108 4/26/01 PD μg/g ND Aroclor 1248 0 108 4/26/01 μg/g Aroclor 1254 2 02 0 108 μg/g 4/26/01 Aroclor 1260 0 657 0 108 4/26/01 μg/g

Total PCB Amount > Reporting Limit

2 83 μg/g

**TIME: 1030** 

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical Inc

obert E Wagner, Laboratory Director

Rito I. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**CUSTOMER ID:** 

SV107-12

NEA ID:

AE02417

**MATRIX:** 

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

**TIME:** 10 30

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

CODIONEERIO. 1071		11070				
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorinat	ed Biphenyls					
Aroclor 1016	ND	0 109	μg/g	4/26/01		
Aroclor 1221	ND	0.109	μg/g	4/26/01		
Clor 1232	ND	0 109	μg/g	4/26/01		
moclor 1242	0 320	0 109	μg/g	4/26/01	PD	
Aroclor 1248	ND	0 109	μg/g	4/26/01		
Aroclor 1254	2 16	0 109	μg/g	4/26/01		
Aroclor 1260	0 534	0.109	μg/g	4/26/01		
Total PCB Amount > Reporting Limit	3 01 μg	g/g				

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

ert E Wagner, Laboratory Director

Robert E. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV107-13

**NEA ID:** 

AE02418

**MATRIX:** 

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

**TIME:** 10 30

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

LAR FLAP#

11078

CUSTOMER PO: N/A	LAD ELAF #:			11078		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorinat	ed Biphenyls					
Aroclor 1016	ND	0 108	μg/g	4/29/01		
Aroclor 1221	ND	0 108	μg/g	4/29/01		
oclor 1232	ND	0 108	μg/g	4/29/01		
Coclor 1242	0 110	0 108	μg/g	4/29/01	PD	
Aroclor 1248	ND	0 108	μg/g	4/29/01		
Aroclor 1254	2 20	0.108	μg/g	4/29/01		
Aroclor 1260	0 511	0.108	μg/g	4/29/01		
Total PCB Amount > Reporting Limit	2 82 - μջ	g/g				

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

ert E Wagner, Laboratory Director

Rober I. Wagn

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228** 

**BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-13 DUP

NEA ID:

AE02443

MATRIX:

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

**TIME: 1030** 

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 109	μg/g	4/27/01	
Aroclor 1221	ND	0 109	μg/g	4/27/01	
oclor 1232	ND	0 109	μg/g	4/27/01	
oclor 1242	0 131	0 109	μg/g	4/27/01	PD
Aroclor 1248	ND	0 109	μg/g	4/27/01	
Aroclor 1254	2 28	0 109	μg/g	4/27/01	
Aroclor 1260	0 490	0 109	μg/g	4/27/01	

Total PCB Amount > Reporting Limit

2 90 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

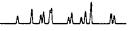
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rhot I. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-14

**NEA ID:** 

AE02419

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

TIME: 10.30

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

CUSTOMER PO:

 $NI/\Delta$ 

LAR ELAP#

11078

	LADE	G. EL 17.	11076	
RESULTS	PQL	UNITS	DATE TESTED	FLAGS
inated Biphenyls	<u>.                                      </u>			
ND	0 546	μg/g	4/26/01	
ND	0 546	μg/g	4/26/01	
ND	0 546	μg/g	4/26/01	
2 49	0 546	μg/g	4/26/01	PD
ND	0 546	μg/g	4/26/01	
9 18	0 546	μg/g	4/26/01	
1 32	0 546	μg/g	4/26/01	
	inated Biphenyls  ND  ND  ND  2 49  ND  9 18	RESULTS PQL  inated Biphenyls  ND 0 546  ND 0 546  ND 0 546  2 49 0 546  ND 0 546  ND 0 546  9 18 0 546	RESULTS PQL UNITS  inated Biphenyls  ND 0 546 μg/g  ND 0 546 μg/g  ND 0 546 μg/g  2 49 0 546 μg/g  ND 0 546 μg/g  ND 0 546 μg/g  ND 0 546 μg/g  ND 0 546 μg/g	RESULTS PQL UNITS DATE TESTED  inated Biphenyls  ND 0 546 μg/g 4/26/01  ND 0 546 μg/g 4/26/01  ND 0 546 μg/g 4/26/01  2 49 0 546 μg/g 4/26/01  ND 0 546 μg/g 4/26/01  ND 0 546 μg/g 4/26/01  ND 0 546 μg/g 4/26/01  9 18 0 546 μg/g 4/26/01

Total PCB Amount > Reporting Limit

130 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

Rober E. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-15

**NEA ID:** 

AE02420

MATRIX:

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

**TIME: 1030** 

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 271 4/26/01 μg/g Aroclor 1221 ND 0 271 4/26/01 μg/g oclor 1232 ND 0 271 4/26/01 μg/g oclor 1242 0 595 0.271 μg/g 4/26/01 PD Aroclor 1248 ND 0 271 4/26/01 μg/g Aroclor 1254 4 38 0 271 4/26/01 μg/g Aroclor 1260 0.801 0 271 μg/g 4/26/01

Total PCB Amount > Reporting Limit

5 78 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

reported to more accurately quantify PCB present in sample that has undergone environmental alteration

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

ebert E Wagner, Laboratory Director

Rho E. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-16

NEA ID:

AE02421

**MATRIX:** 

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

TIME: 10 30 PROJECT: **FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

RESULTS DATE TESTED **FLAGS** PARAMETER PERFORMED POL UNITS SW-846 Method 8082, Polychlorinated Biphenyls 4/26/01 Aroclor 1016 ND 0 535 μg/g 4/26/01 ND 0 535 Aroclor 1221 μg/g ND 4/26/01 oclor 1232 0 535 μg/g 4/26/01 PD oclor 1242 1 58 0 535 μg/g 4/26/01 Aroclor 1248 ND 0 535 μg/g 133 4/26/01 Aroclor 1254 0 535 μg/g Aroclor 1260 2 2 5 0 535 μg/g 4/26/01 Total PCB Amount > Reporting Limit 17 I

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

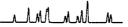
POL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

obert E Wagner, Laboratory Director

Rhot E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-17

NEA ID:

AE02422

**MATRIX:** 

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

**TIME: 1030** 

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS **PQL** UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls ND Aroclor 1016 0 0526 4/26/01 μg/g Aroclor 1221 ND 0 0526 μg/g 4/26/01 oclor 1232 ND 0.0526 4/26/01 μg/g oclor 1242 0 0833 0 0526 4/26/01 PD μg/g Aroclor 1248 ND 0 0526 4/26/01 μg/g Aroclor 1254 0 474 0 0526 4/26/01 μg/g Aroclor 1260 0 0536 0 0526 4/26/01 μg/g

Total PCB Amount > Reporting Limit

0611 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

POL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

bert E Wagner, Laboratory Director

Rober E. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-18

NEA ID:

AE02446

MATRIX:

**FISH** 

J ORR

**DATE SAMPLED: 04/19/2001** 

TIME: 800 **PROJECT:**  **FISH STUDY** 

**SAMPLED BY:** 

04/23/2001

LOCATION:

**CLEMSON SC** 

TIME: N/A

**CUSTOMER PO:** 

DATE RECEIVED:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 440 4/27/01 μg/g Aroclor 1221 ND 0 440 μg/g 4/27/01 clor 1232 ND 0 440 4/27/01 μg/g oclor 1242 0 662 0 440 4/27/01 PD μg/g Aroclor 1248 ND 0 440 4/27/01 μg/g Aroclor 1254 6 96 0 440 4/27/01 μg/g Aroclor 1260 0.917 0 440 4/27/01 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

μg/g

Note There were few non-target peaks

Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

abert E Wagner, Laboratory Director

Rober E. Wogn

8 54

### NORTHEAST ANALYTICAL M Man Mala

ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 06/19/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-19

NEA ID:

AE02447

**MATRIX:** 

Aroclor 1016

Aroclor 1221

Aroclor 1248

Aroclor 1254

Aroclor 1260

oclor 1232

clor 1242

**FISH** 

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 800 PROJECT:

RESULTS

ND

ND

ND

ND

4 53

0.858

0511

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

6/11/01

**CUSTOMER PO:** 

PARAMETER PERFORMED

N/A

SW-846 Method 8082, Polychlorinated Biphenyls

LAB ELAP #:

UNITS

μg/g

μg/g

μg/g

μg/g

μg/g

μg/g

μg/g

PQL

0 206

0 206

0 206

0 206

0 206

0 206

0 206

11078

DATE TESTED **FLAGS** 6/11/01 6/11/01 6/11/01 6/11/01 PD 6/11/01 6/11/01

Total PCB Amount > Reporting Limit

5 90 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober E. Wogn



2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### **CERTIFICATE OF ANALYSIS** 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV107-20

**NEA ID:** 

AE02821

**MATRIX:** 

FISH

**DATE SAMPLED: 04/25/2001** 

**FIME:** N/A

DATE RECEIVED:

04/27/2001

**TIME: 1030** 

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

000.0					
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinat	ed Biphenyls				
Aroclor 1016	ND	0 211	μg/g	5/13/01	
Aroclor 1221	ND	0 211	μg/g	5/13/01	
Clor 1232	ND	0 211	μg/g	5/13/01	
oclor 1242	0 879	0 211	μg/g	5/13/01	PD
Aroclor 1248	ND	0 211	μg/g	5/13/01	
Aroclor 1254	5 15	0 211	μg/g	5/13/01	
Aroclor 1260	0 782	0 211	μg/g	5/13/01	
Total PCB Amount > Reporting Limit	681 µg	/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

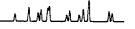
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV107-21

NEA ID:

AE02808

**MATRIX:** 

FISH

**DATE SAMPLED: 04/26/2001** 

TIME: N/A

DATE RECEIVED:

04/28/2001

TIME: 11 30

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

**LOCATION:** 

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

COSTONERIO. 14/11		UND LEAL #.			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DA FE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls	-			
Aroclor 1016	ND	0 161	μg/g	5/12/01	
Aroclor 1221	ND	0 161	μg/g	5/12/01	
1 clor 1232	ND	0 161	μg/g	5/12/01	
oclor 1242	0 820	0 161	μg/g	5/12/01	PD
Aroclor 1248	ND	0 161	μ <b>g</b> /g	5/12/01	
Aroclor 1254	5 15	0 161	μg/g	5/12/01	
Aroclor 1260	0 897	0 161	μg/g	5/12/01	
T . 1 D C D	6.05	,			

Total PCB Amount > Reporting Limit

87 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober E. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

CONTACT: JIM ORR

**CUSTOMER ID:** 

DATE RECEIVED:

SV107-22

**NEA ID:** 

AE02809

**MATRIX:** 

**DATE SAMPLED: 04/26/2001** 

TIME: N/A

FISH

**TIME:** 11 30

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

04/28/2001 J. ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 156	μg/g	5/12/01	
Aroclor 1221	ND	0 156	μg/g	5/12/01	
Clor 1232	ND	0 156	μg/g	5/12/01	
clor 1242	0 605	0 156	μg/g	5/12/01	PD
Aroclor 1248	ND	0 156	μg/g	5/12/01	
Aroclor 1254	4 30	0 156	μg/g	5/12/01	
Aroclor 1260	0 738	0 156	μg/g	5/12/01	
T-4-1 DCD Amount > Donastros I	5.64	1-			

Total PCB Amount > Reporting Limit

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample | Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

Rober E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

# CERTIFICATE OF ANALYSIS 06/18/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**CUSTOMER ID:** 

SV107-23

NEA ID:

AE03536

**MATRIX:** 

FISH

**DATE SAMPLED: 05/08/2001** 

01 **TIME:** N/A

DATE RECEIVED:

05/11/2001

**TIME:** 10 15

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	unated Biphenyls			· · · · · · · · · · · · · · · · · · ·	
Aroclor 1016	ND	0 109	μg/g	6/9/01	
Aroclor 1221	ND	0 109	μg/g	6/9/01	
11 pclor 1232	ND	0 109	μg/g	6/9/01	
moclor 1242	0 507	0 109	μg/g	6/9/01	PD
Aroclor 1248	ND	0 109	μg/g	6/9/01	
Aroclor 1254	3.00	0 109	μg/g	6/9/01	
Aroclor 1260	0 471	0 109	μg/g	6/9/01	

Total PCB Amount > Reporting Limit

3 98 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

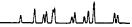
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

bert E Wagner, Laboratory Director

RAD E. Worm





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 06/18/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV107-24

**NEA ID:** 

AE03537

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 05/08/2001** 

TIME: N/A

DATE RECEIVED:

05/11/2001

TIME: 10 15

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlori	nated Biphenyls			<u></u>	<del></del>	
Aroclor 1016	ND	0 218	μg/g	6/9/01		
Aroclor 1221	ND	0 218	μg/g	6/9/01		
clor 1232	ND	0 218	μg/g	6/9/01		
Proclor 1242	1.11	0 218	μg/g	6/9/01	PD	
Aroclor 1248	ND	0 218	μg/g	6/9/01		
Aroclor 1254	5 92	0 218	μg/g	6/9/01		
Aroclor 1260	0 974	0 218	μg/g	6/9/01		
Total PCB Amount > Reporting Lir	nit 8 00 µg	g/g				

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

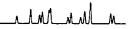
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

rt E Wagner, Laboratory Director

Robert E. Wogm



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 06/18/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-25

NEA ID:

AE03538

**MATRIX:** 

**DATE SAMPLED: 05/08/2001** 

**FISH** 

J ORR

**TIME: 10 15** PROJECT: **FISH STUDY** 

**SAMPLED BY:** 

DATE RECEIVED:

05/11/2001

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

PARAMETER PERFORMED

N/A

LAB ELAP #:

UNITS

**PQL** 

11078

DATE TESTED **FLAGS** 

TIME: N/A

SW-846 Method 8082, Polyc	chlorinated Biphenyls				
Aroclor 1016	ND	0 109	μg/g	6/9/01	
Aroclor 1221	ND	0 109	μg/g	6/9/01	
clor 1232	ND	0 109	μg/g	6/9/01	
Coclor 1242	0 453	0 109	µg/g	6/9/01	PD
Aroclor 1248	ND	0 109	μg/g	6/9/01	
Aroclor 1254	3 02	0 109	μg/g	6/9/01	
Aroclor 1260	0 434	0 109	μg/g	6/9/01	

Total PCB Amount > Reporting Limit

391 μg/g

RESULTS

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

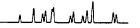
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

bert E Wagner, Laboratory Director

Rober E. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> **CERTIFICATE OF ANALYSIS** 06/18/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV107-26

05/11/2001

**NEA ID:** 

AE03539

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 05/08/2001** 

TIME: N/A

DATE RECEIVED:

**TIME:** 10 15

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DAFE TESTED	FLAGS
SW-846 Method 8082, Polychlorina	ated Biphenyls				
Aroclor 1016	ND	0 204	μg/g	6/9/01	
Aroclor 1221	ND	0 204	μg/g	6/9/01	
Opclor 1232	ND	0 204	μg/g	6/9/01	
oclor 1242	0 930	0 204	μg/g	6/9/01	PD
Aroclor 1248	ND	0 204	μg/g	6/9/01	
Aroclor 1254	5 24	0 204	μg/g	6/9/01	
Aroclor 1260	0 825	0 204	μg/g	6/9/01	
Total PCB Amount > Reporting Limit	t 7 00 μg	g/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 06/19/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV106-1

NEA ID:

AE02305

MATRIX:

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00 PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS **PQL** UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.103 6/11/01 μg/g Aroclor 1221 ND 0 103 6/11/01 μg/g clor 1232 ND 0 103 6/11/01 μg/g clor 1242 0 3 7 0 0 103 PD μg/g 6/11/01 Aroclor 1248 ND 0 103 6/11/01 μg/g Aroclor 1254 231 0 103 6/11/01 μg/g Aroclor 1260 0371 0 103 6/11/01 μg/g

Total PCB Amount > Reporting Limit

 $3.05 \mu g/g$ 

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

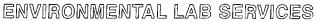
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robb I. Wogn



2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 06/19/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV106-2

**NEA ID:** 

AE02306

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/17/2001

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

N/A

LABELAP#:

11078

COSTONIERTO. INA		LADE	LAI #.	11076	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 162	μg/g	6/11/01	
Aroclor 1221	ND	0 162	μg/g	6/11/01	
clor 1232	ND	0 162	µg/g	6/11/01	
oclor 1242	0 612	0 162	μg/g	6/11/01	PD
Aroclor 1248	ND	0 162	μg/g	6/11/01	
Aroclor 1254	3 42	0 162	μg/g	6/11/01	
Aroclor 1260	0 521	0 162	μg/g	6/11/01	
Total PCB Amount > Reporting Lii	mıt 4.55 μg	/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

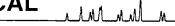
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

RAD I. Wom



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV106-3

NEA ID:

AE02307

**MATRIX:** 

FISH

DATE SAMPLED: 04/17/2001

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO: N/A		LAB E	LAP#:	11078	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 107	μg/g	4/24/01	
Aroclor 1221	ND	0 107	μg/g	4/24/01	
clor 1232	ND	0 107	μg/g	4/24/01	
clor 1242	0 387	0 107	μg/g	4/24/01	PD
Aroclor 1248	ND	0 107	μg/g	4/24/01	
Aroclor 1254	2.03	0 107	μg/g	4/24/01	
Aroclor 1260	0 319	0 107	μg/g	4/24/01	
Total DCD Amount > Panarting Li	mit 2.74 iv	110			

Total PCB Amount > Reporting Limit

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

RAD I. Wogm

### NORTHEAST ANALYTICAL M MM MALL



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/07/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV106-4

NEA ID:

AE02308

MATRIX:

**FISH** 

**DATE SAMPLED:** 04/17/2001

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls ND 0 2 1 0 5/4/01 Aroclor 1016 μg/g Aroclor 1221 ND 0 2 1 0 μg/g 5/4/01 ND 0 2 1 0 5/4/01 oclor 1232 μg/g oclor 1242 ND 0210 5/4/01 μg/g Aroclor 1248 ND 0 2 1 0 5/4/01 μg/g Aroclor 1254 3 41 0210 5/4/01 μg/g 0 728 0 2 1 0 5/4/01 Aroclor 1260 μg/g

Total PCB Amount > Reporting Limit

4 14

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

RAD E. Wogn

### NORTHEAST ANALYTICAL MMMML.



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/07/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV106-4 DUP

NEA ID:

AE02338

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

**TIME:** 11 00

**PROJECT:** 

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED FLAGS SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 208 μg/g 5/4/01 Aroclor 1221 ND 0 208  $\mu g/g$ 5/4/01 oclor 1232 ND 0 208 5/4/01 μg/g Sclor 1242 ND 0 208 5/4/01 μg/g Aroclor 1248 ND 0.208 5/4/01 μg/g Aroclor 1254 3 84 5/4/01 0 208 μg/g Aroclor 1260 0.925 0 208 5/4/01 μg/g

Total PCB Amount > Reporting Limit

4 76

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD I. Wogn

TIME: 1100



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV106-5

NEA ID:

AE02309

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 163 4/25/01 μg/g Aroclor 1221 ND 0 163 4/25/01 μg/g oclor 1232 ND 0 163 μg/g 4/25/01 clor 1242 0 404 PD 0 163 4/25/01 μg/g Aroclor 1248 ND 0 163 4/25/01 μg/g Aroclor 1254 2 94 0 163 4/25/01 μg/g 0513 Aroclor 1260 0 163 4/25/01 μg/g

Total PCB Amount > Reporting Limit

3 86 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

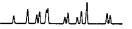
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rober I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV106-6

NEA ID:

AE02310

MATRIX:

**FISH** 

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TLME: 11 00 PROJECT: **FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 111	μg/g	4/25/01	
Aroclor 1221	ND	0 111	μg/g	4/25/01	
clor 1232	ND	0 111	μg/g	4/25/01	
clor 1242	0 249	0 111	μg/g	4/25/01	
Aroclor 1248	ND	0 111	μg/g	4/25/01	
Aroclor 1254	1 98	0 111	μg/g	4/25/01	
Aroclor 1260	0 366	0 111	μg/g	4/25/01	

Total PCB Amount > Reporting Limit

2 60

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

Robert E. Wagn

### NORTHEAST ANALYTICAL MAN AMLA



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV106-7

NEA ID:

AE02311

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/17/2001

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS **PQL** UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 110 4/25/01 μg/g Aroclor 1221 ND 0.110 4/25/01  $\mu g/g$ oclor 1232 ND 0 1 1 0 μg/g 4/25/01 oclor 1242 0 143 PD 0.110 4/25/01 µg/g Aroclor 1248 ND 0 110 4/25/01 μg/g Aroclor 1254 107 0 110 4/25/01 μg/g Aroclor 1260 0 154 0 110 4/25/01 μg/g

Total PCB Amount > Reporting Limit

 $\mu g/g$ 

1 37

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

obert E Wagner, Laboratory Director

RHD I. Wogn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV106-8

NEA ID:

AE02312

**MATRIX:** 

FISH

DATE

**DATE SAMPLED:** 04/17/2001

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

CODIONIERTO: 1071		END C	D2 11 // .	11070	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorin	ated Biphenyls				
Aroclor 1016	ND	0 213	μg/g	4/25/01	
Aroclor 1221	ND	0 213	μg/g	4/25/01	
Clor 1232	ND	0 213	μg/g	4/25/01	
Sclor 1242	ND	0 213	μg/g	4/25/01	
Aroclor 1248	ND	0 213	μg/g	4/25/01	
Aroclor 1254	1 48	0 213	μg/g	4/25/01	
Aroclor 1260	3 54	0 213	µg/g	4/25/01	
Total PCB Amount > Reporting Lim	ıt 5 02 μg	g/g			

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Robert E. Wagn

### NORTHEAST ANALYTICAL MANAMA



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV106-9

NEA ID:

AE02313

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00 **PROJECT:**  FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO: N/A		LAB ELAP #:			11078		
PARAMETER PERFORMED	RESULTS		PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorinate	ed Biphenyl	s					
Aroclor 1016	ND		0 108	μg/g	4/25/01		
Aroclor 1221	ND		0 108	μg/g	4/25/01		
Toclor 1232	ND		0 108	μg/g	4/25/01		
oclor 1242	0 163		0 108	μg/g	4/25/01	PD	
Aroclor 1248	ND		0 108	μg/g	4/25/01		
Aroclor 1254	1 10	•	0 108	μg/g	4/25/01		
Aroclor 1260	0 185		0 108	μg/g	4/25/01		
Total PCB Amount > Reporting Limit	1 45	μg/g					

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

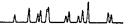
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV106-10

NEA ID:

AE02314

MATRIX:

FISH

**DATE SAMPLED:** 04/17/2001

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00 **PROJECT:**  FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0110 4/25/01 μg/g Aroclor 1221 ND 0 110 4/25/01 μg/g oclor 1232 ND 0 110 4/25/01 μg/g oclor 1242 0 163 0 110 4/25/01 PD μg/g Aroclor 1248 ND 0 110 4/25/01 μg/g Aroclor 1254 1 37 0 110 4/25/01 μg/g Aroclor 1260 0 292 0 110 4/25/01 μg/g Total PCB Amount > Reporting Limit

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rhot E. Wagn

1.83

### NORTHEAST ANALYTICAL M MA MALA



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV106-11

NEA ID:

AE02315

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls ND 4/25/01 Aroclor 1016 0 107 μg/g Aroclor 1221 ND 0 107 4/25/01 μg/g oclor 1232 ND 0 107 μg/g 4/25/01 Sclor 1242 PD 0 177 0 107 4/25/01 μg/g Aroclor 1248 ND 0 107 4/25/01 μg/g 1 24 4/25/01 Aroclor 1254 0 107 μg/g Aroclor 1260 0.208 0.107 μg/g 4/25/01 Total PCB Amount > Reporting Limit 1 63 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

POL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

pert E Wagner, Laboratory Director

RH E. Wogn

### NORTHEAST ANALYTICAL A MAM MAN A



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/02/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

CONTACT: JIM ORR

**CUSTOMER ID:** 

SV106-12

NEA ID:

AE02316

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00 PROJECT: **FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO-

 $N/\Delta$ 

LAR FLAP#

11078

CUSTOMER PO: N/A	LADE	LAP#:	11078		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0552	μg/g	4/25/01	
Aroclor 1221	ND	0 0552	μg/g	4/25/01	
Clor 1232	ND	0 0552	μg/g	4/25/01	
Sclor 1242	ND	0 0552	μg/g	4/25/01	
Aroclor 1248	ND	0 0552	μg/g	4/25/01	
Aroclor 1254	0 543	0 0552	μg/g	4/25/01	
Aroclor 1260	0 0811	0 0552	μg/g	4/25/01	

Total PCB Amount > Reporting Limit

0.624 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

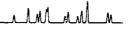
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rhot I. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

CONTACT: JIM ORR

**CUSTOMER ID:** 

SV106-13

NEA ID:

AE02317

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.0552 4/25/01  $\mu g/g$ Aroclor 1221 ND 0 0552 4/25/01 μg/g oclor 1232 ND 0.0552 4/25/01 μg/g oclor 1242 ND 0 0552 4/25/01 μg/g Aroclor 1248 0.0552 4/25/01 ND μg/g Aroclor 1254 0 577 0 0552 4/25/01 μg/g Aroclor 1260 0 137 0 0552 4/25/01 µg/g

Total PCB Amount > Reporting Limit

0.714 μg/g

Note There were few non-target peaks

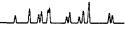
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

RHD E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### **CERTIFICATE OF ANALYSIS** 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV106-14

NEA ID:

AE02318

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/17/2001

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CHETOMED DO.

N1/A

LADELADA.

11070

CUSTOMER PO: N/A		LABEI			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0530	μg/g	4/25/01	
Aroclor 1221	ND	0 0530	րց/ց	4/25/01	
Pelor 1232	ND	0 0530	μg/g	4/25/01	
oclor 1242	ND	0 0530	μg/g	4/25/01	
Aroclor 1248	ND	0 0530	μg/g	4/25/01	
Aroclor 1254	0 981	0 0530	μg/g	4/25/01	
Aroclor 1260	0 287	0 0530	μg/g	4/25/01	
T I DOD I I I D D I I I	. 1.07	. 1.			

Total PCB Amount > Reporting Limit

1 27 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

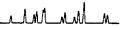
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

RHD I. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV106-15

**NEA ID:** 

AE02319

MATRIX:

**FISH** 

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

**TIME:** 11 00

**PROJECT:** 

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO: N/A		LAB E	LAP#:	11078	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0531	μg/g	4/25/01	
Aroclor 1221	ND	0 0531	μg/g	4/25/01	
Clor 1232	ND	0 0531	μg/g	4/25/01	
oclor 1242	ND	0 0531	μg/g	4/25/01	
Aroclor 1248	ND	0 0531	μg/g	4/25/01	
Aroclor 1254	1 18	0 0531	μg/g	4/25/01	
Aroclor 1260	0 258	0 0531	μg/g	4/25/01	

Total PCB Amount > Reporting Limit

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

ert E Wagner Laboratory Director

Rober E. Wagn

1 44

μg/g



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/16/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV106-16R

NEA ID:

AE02814

**MATRIX:** 

**FISH** 

**DATE SAMPLED:** 04/26/2001

DATE RECEIVED:

04/28/2001

**TIME:** 1130 PROJECT: FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

TIME: N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

COSTOLITER OF THE						
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	rinated Biphenyls					
Aroclor 1016	ND	0 0520	μg/g	5/12/01		
Aroclor 1221	ND	0 0520	μg/g	5/12/01		
oclor 1232	ND	0 0520	μg/g	5/12/01		
clor 1242	ND	0 0520	μg/g	5/12/01		
Aroclor 1248	ND	0 0520	μg/g	5/12/01		
Aroclor 1254	0 354	0 0520	μg/g	5/12/01		
Aroclor 1260	0 114	0 0520	μg/g	5/12/01		

Total PCB Amount > Reporting Limit

0 468

μg/g

Note There were few non-target peaks

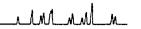
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rho I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 06/19/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**CUSTOMER ID:** 

SV106-18

NEA ID:

AE02425

**MATRIX:** 

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

TIME: 10 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED POL RESULTS UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.0519 6/11/01 μg/g Aroclor 1221 ND 0.0519 6/11/01 μg/g oclor 1232 ND 0 0519 6/11/01  $\mu g/g$ oclor 1242 0 0597 PD 0 0519 ug/g 6/11/01 Aroclor 1248 ND 0 0519 6/11/01 μg/g Aroclor 1254 0.931 0 0519 6/11/01 μg/g Aroclor 1260 0 221 0 0519 6/11/01 μg/g Total PCB Amount > Reporting Limit 121 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical Inc

Sebert E Wagner, Laboratory Director

Robert E. Wogn





ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV106-19

NEA ID:

AE02485

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 8 00

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL DATE TESTED UNITS **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 2 0 7 5/1/01 μg/g Aroclor 1221 ND 0 207 5/1/01 μg/g oclor 1232 ND 0 207 μg/g 5/1/01 clor 1242 0.668 5/1/01 0 207 PD μg/g ND 0 207 5/1/01 Aroclor 1248 μg/g Aroclor 1254 3 56 0 207 μg/g 5/1/01 Aroclor 1260 0 548 0 2 0 7 5/1/01 μg/g

Total PCB Amount > Reporting Limit

4 78

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober I. Wogn





ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 06/19/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV106-20

**NEA ID:** 

AE02486

MATRIX:

**FISH** 

**DATE SAMPLED:** 04/19/2001

TIME: N/A

DATE RECEIVED:

04/23/2001

**TIME: 800** 

PROJECT:

FISH STUDY

**CLEMSON SC** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CUSTOMER PO:** N/A LAB ELAP #: 11078 PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 106 6/10/01 μg/g Aroclor 1221 0 106 ND 6/10/01 μg/g oclor 1232 ND 0 106 6/10/01 μg/g oclor 1242 0 501 0 106 6/10/01 PD μg/g ND Aroclor 1248 0.106 μg/g 6/10/01 Aroclor 1254 2 66 0 106 6/10/01 μg/g Aroclor 1260 0.430 0.106 6/10/01 μg/g

Total PCB Amount > Reporting Limit 3 59 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

obert E Wagner, Laboratory Director

Rober I. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**CUSTOMER ID:** 

SV106-21

NEA ID:

AE02822

MATRIX:

FISH

**DATE SAMPLED:** 04/25/2001

TIME: N/A

DATE RECEIVED:

04/27/2001

**TIME:** 10 30

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS **PQL** UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 3 0 5 5/13/01 μg/g Aroclor 1221 ND 0 3 0 5 5/13/01 μg/g pelor 1232 ND 0 305 5/13/01 μg/g clor 1242 0 720 PD 0.305 μg/g 5/13/01 ND 0 3 0 5 Aroclor 1248 5/13/01 μg/g Aroclor 1254 5 74 0 3 0 5 5/13/01 μg/g Aroclor 1260 1 17 0 3 0 5 μg/g 5/13/01

Total PCB Amount > Reporting Limit

7 63 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

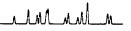
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

obert E Wagner, Laboratory Director

Rober I. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV106-22

NEA LD:

AE02810

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/26/2001

TIME: N/A

DATE RECEIVED:

04/28/2001

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

N/A

LAB ELAP #:

11078

CUSTOMER FO: N/A		LAD ELAF #:			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 108	μg/g	5/12/01	
Aroclor 1221	ND	0 108	μg/g	5/12/01	
<b>Clor</b> 1232	ND	0 108	μg/g	5/12/01	
sclor 1242	0 449	0 108	μg/g	5/12/01	PD
Aroclor 1248	ND	0 108	μg/g	5/12/01	
Aroclor 1254	2 61	0 108	μg/g	5/12/01	
Aroclor 1260	0 410	0 108	μg/g	5/12/01	
Total PCR Amount > Reporting Li	mit 3.47 u.o	r/a			

Total PCB Amount > Reporting Limit

47 μg/g

**TIME:** 11 30

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

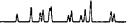
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RAD I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JTM ORR

**CUSTOMER ID:** 

SV106-22 DUP

NEA ID:

AE02835

**MATRIX:** 

FISH

\_ . \_ \_ ~

**DATE SAMPLED:** 04/26/2001

TIME: N/A

DATE RECEIVED:

04/28/2001

**TIME: 1130** 

**PROJECT:** 

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

	2112 2			
RESULTS	PQL	UNITS	DATE TESTED	FLAGS
unated Biphenyls				
ND	0 101	μg/g	5/12/01	
ND	0 101	μg/g	5/12/01	
ND	0 101	μg/g	5/12/01	
0 475	0 101	μg/g	5/12/01	PD
ND	0 101	μg/g	5/12/01	
2 52	0 101	μg/g	5/12/01	
0 402	0 101	μg/g	5/12/01	
	ND ND ND ND 0 475 ND 2 52	RESULTS PQL  runated Biphenyls  ND 0 101  ND 0 101  ND 0 101  0 475 0 101  ND 0 101  ND 0 101  2 52 0 101	ND 0 101 μg/g ND 0 101 μg/g ND 0 101 μg/g ND 0 101 μg/g 0 475 0 101 μg/g ND 0 101 μg/g ND 0 101 μg/g 2 52 0 101 μg/g	RESULTS PQL UNITS DATE TESTED  runated Biphenyls  ND 0 101 μg/g 5/12/01  ND 0 101 μg/g 5/12/01  ND 0 101 μg/g 5/12/01  0 475 0 101 μg/g 5/12/01  ND 0 101 μg/g 5/12/01  ND 0 101 μg/g 5/12/01  2 52 0 101 μg/g 5/12/01

Total PCB Amount > Reporting Limit

3 40 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Cobert E Wagner, Laboratory Director

RHD E. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

# CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV106-23

NEA ID:

AE02811

MATRIX:

FISH

**DATE SAMPLED:** 04/26/2001

TIME: N/A

DATE RECEIVED:

04/28/2001

TIME: 1130

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0545	μg/g	5/12/01	
Aroclor 1221	ND	0 0545	μg/g	5/12/01	
Clor 1232	ND	0 0545	μg/g	5/12/01	
oclor 1242	0 271	0 0545	μg/g	5/12/01	PD
Aroclor 1248	ND	0 0545	μg/g	5/12/01	
Aroclor 1254	1 54	0 0545	μg/g	5/12/01	
Aroclor 1260	0 220	0 0545	μg/g	5/12/01	

Total PCB Amount > Reporting Limit

2.03  $\mu g/g$ 

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample — Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

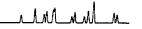
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

Rober I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV106-24

NEA ID:

AE02812

**MATRIX:** 

FISH

J ORR

**DATE SAMPLED: 04/26/2001** 

TIME: N/A

DATE RECEIVED:

04/28/2001

TIME: 1130

PROJECT:

**FISH STUDY** 

SAMPLED BY:

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls			***	
Aroclor 1016	ND	0 107	μg/g	5/12/01	
Aroclor 1221	ND	0 107	μg/g	5/12/01	
oclor 1232	ND	0 107	μg/g	5/12/01	
oclor 1242	0 364	0 107	μg/g	5/12/01	PD
Aroclor 1248	ND	0 107	μg/g	5/12/01	
Aroclor 1254	2 33	0 107	μg/g	5/12/01	
Aroclor 1260	0 372	0 107	μg/g	5/12/01	
Total DCD Amount > Domestine La	mut 2.07	. I.m			

Total PCB Amount > Reporting Limit

3 07

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rito I. Wogn

#### NORTHEAST ANALYTICAL MA MAL



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/16/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**TIME:** 11 30

**CUSTOMER ID:** 

SV106-25

NEA ID:

AE02813

**MATRIX:** 

FISH

**DATE SAMPLED: 04/26/2001** 

TIME: N/A

DATE RECEIVED:

04/28/2001

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

Coolonabition		5,15 5.		11070	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinate	ed Biphenyls				
Aroclor 1016	ND	0 0533	μg/g	5/12/01	
Aroclor 1221	ND	0 0533	μg/g	5/12/01	
clor 1232	ND	0 0533	μg/g	5/12/01	
clor 1242	0 246	0 0533	μg/g	5/12/01	PD
Aroclor 1248	ND	0 0533	μg/g	5/12/01	
Aroclor 1254	1 54	0 0533	μg/g	5/12/01	
Aroclor 1260	0 242	0 0533	μg/g	5/12/01	
Total PCB Amount > Reporting Limit	2 03 μ	g/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

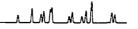
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHE E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV532-1

NEA ID:

AE02320

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

COSTONIENTO. 1071		E/CD E/	3/ <b>LL</b> // •	11070		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychia	orinated Biphenyls					
Aroclor 1016	ND	0 0513	μg/g	4/25/01		
Aroclor 1221	ND	0 0513	μg/g	4/25/01		
clor 1232	ND	0 0513	μg/g	4/25/01		
Clor 1242	ND	0 0513	μg/g	4/25/01		
Aroclor 1248	ND	0 0513	μg/g	4/25/01		
Aroclor 1254	0 306	0 0513	μg/g	4/25/01		
Aroclor 1260	0 0627	0 0513	µg/g	4/25/01		

Total PCB Amount > Reporting Limit

0 369 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robert E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-2

NEA ID:

AE02321

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/17/2001

TIME: N/A

DATE RECEIVED:

04/19/2001

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078 PARAMETER PERFORMED UNITS RESULTS PQL DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0550 4/25/01 μg/g Aroclor 1221 ND 0 0550 μg/g 4/25/01 oclor 1232 ND 0 0550 4/25/01 μg/g oclor 1242 ND 0 0550 4/25/01 μg/g Aroclor 1248 ND 0 0550 µg/g 4/25/01 Aroclor 1254 0 226 0 0550 μg/g 4/25/01 Aroclor 1260 ND 0.0550 4/25/01 μg/g

Total PCB Amount > Reporting Limit

0 226 μg/g

TIME: 11 00

Note There were few non-target peaks

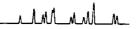
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

Ritt I. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV532-3

**NEA ID:** 

AE02322

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

**PROJECT:** 

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	unated Biphenyls				
Aroclor 1016	ND	0 0541	μg/g	4/27/01	
Aroclor 1221	ND	0.0541	μg/g	4/27/01	
clor 1232	ND	0 0541	μg/g	4/27/01	
sclor 1242	0 115	0 0541	μg/g	4/27/01	PD
Aroclor 1248	ND	0 0541	μg/g	4/27/01	
Aroclor 1254	0 722	0 0541	μg/g	4/27/01	
Aroclor 1260	0 101	0 0541	μg/g	4/27/01	
Arocioi 1200		0 0541	μg/g	4/2//01	

Total PCB Amount > Reporting Limit

0 938 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

RHE E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### **CERTIFICATE OF ANALYSIS** 05/07/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-4

04/19/2001

**NEA ID:** 

AE02323

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

TIME: 11 00

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polych	lorinated Biphenyls					-
Aroclor 1016	ND	0 0524	μg/g	5/4/01		
Aroclor 1221	ND	0 0524	μg/g	5/4/01		
oclor 1232	ND	0 0524	μg/g	5/4/01		
oclor 1242	ND	0 0524	μg/g	5/4/01		
Aroclor 1248	ND	0 0524	μg/g	5/4/01		
Aroclor 1254	0 159	0 0524	μg/g	5/4/01		
Aroclor 1260	ND	0 0524	μg/g	5/4/01		

Total PCB Amount > Reporting Limit

0 159 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

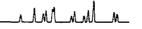
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Robert E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> **CERTIFICATE OF ANALYSIS** 05/07/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-4 DUP

NEA ID:

AE02339

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

RESULTS

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

PARAMETER PERFORMED

N/A

LAB ELAP #:

UNITS

POL

11078 DATE TESTED

**FLAGS** 

	11200210	. 2.5	01.110		. 2.100
SW-846 Method 8082, Polych	lorinated Biphenyls				
Aroclor 1016	ND	0 0546	μg/g	5/4/01	
Aroclor 1221	ND	0 0546	μg/g	5/4/01	
Clor 1232	ND	0 0546	μg/g	5/4/01	
oclor 1242	ND	0 0546	μg/g	5/4/01	
Aroclor 1248	ND	0 0546	μg/g	5/4/01	
Aroclor 1254	0 163	0 0546	μg/g	5/4/01	
Aroclor 1260	ND	0 0546	μg/g	5/4/01	

Total PCB Amount > Reporting Limit

0 163 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

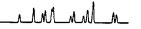
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

CONTACT: JIM ORR

**CUSTOMER ID:** 

SV532-5

NEA ID:

AE02324

MATRIX:

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls	******			
Aroclor 1016	ND	0 103	μg/g	4/25/01	
Aroclor 1221	ND	0 103	μg/g	4/25/01	
1 oclor 1232	ND	0 103	μg/g	4/25/01	
oclor 1242	ND	0 103	μg/g	4/25/01	
Aroclor 1248	ND	0 103	μg/g	4/25/01	
Aroclor 1254	1.05	0 103	μg/g	4/25/01	
Aroclor 1260	0 185	0 103	μg/g	4/25/01	
Total PCB Amount > Reporting Li	mit 124 μg	g/g			

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

obert E. Wagner, Laboratory Director

Robert E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-6

NEA ID:

AE02325

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/17/2001** 

μg/g

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

FISH STUDY

SAMPLED BY:

J. ORR

LOCATION:

**CLEMSON SC** 

4/25/01

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS **PQL** UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls ND Aroclor 1016 0 0506 4/25/01 μg/g Aroclor 1221 ND 0 0506 μg/g 4/25/01 clor 1232 ND 0.0506 4/25/01 μg/g clor 1242 ND 0 0506 4/25/01 μg/g Aroclor 1248 ND 0 0506 4/25/01 μg/g Aroclor 1254 0.183 0 0506 4/25/01 μg/g

0 0506

Total PCB Amount > Reporting Limit

0 183

ND

μg/g

Note There were few non-target peaks

Aroclor 1260

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

RHD E. Wogn



CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**CUSTOMER ID:** 

SV532-7

NEA ID:

AE02326

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/17/2001

TIME: N/A

DATE RECEIVED:

04/19/2001

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	orinated Biphenyls				
Aroclor 1016	ND	0 0518	μg/g	4/25/01	
Aroclor 1221	ND	0 0518	μg/g	4/25/01	
oclor 1232	ND	0 0518	μg/g	4/25/01	
oclor 1242	ND	0 0518	μg/g	4/25/01	
Aroclor 1248	ND	0 0518	μg/g	4/25/01	
Aroclor 1254	0 239	0 0518	μg/g	4/25/01	
Aroclor 1260	0 0696	0 0518	μg/g	4/25/01	

Total PCB Amount > Reporting Limit

0 309

**TIME: 11 00** 

μg/g

Note There were few non-target peaks

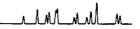
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> **CERTIFICATE OF ANALYSIS** 05/07/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-8

**NEA ID:** 

AE02327

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls	-	. :		
Aroclor 1016	ND	0 0513	μg/g	5/4/01	
Aroclor 1221	ND	0 0513	μg/g	5/4/01	
Pelor 1232	ND	0 0513	μg/g	5/4/01	
oclor 1242	ND	0 0513	μg/g	5/4/01	
Aroclor 1248	ND	0 0513	μg/g	5/4/01	
Aroclor 1254	0 812	0 0513	μg/g	5/4/01	
Aroclor 1260	0 174	0 0513	μg/g	5/4/01	

Total PCB Amount > Reporting Limit

0 986

μg/g

Note There were few non-target peaks

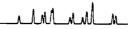
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

obert E Wagner, Laboratory Director

RHD I. Wogn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/07/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

**CONTACT: JIM ORR** 

CUSTOMER ID:

SV532-8 DUP

NEA ID:

AE02340

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/17/2001

1/17/2001 **TIME:** N/A

DATE RECEIVED:

04/19/2001

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0538 5/4/01 μg/g Aroclor 1221 ND 0 0538 5/4/01 μg/g oclor 1232 ND 0 0538 5/4/01 μg/g clor 1242 ND 0.0538 5/4/01 μg/g Aroclor 1248 ND 0 0538 5/4/01 μg/g Aroclor 1254 1 38 5/4/01 0 0538 μg/g Aroclor 1260 0 297 0 0538 5/4/01 μg/g

Total PCB Amount > Reporting Limit

1 68

TIME: 11 00

 $\mu g/g$ 

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-9

**NEA ID:** 

AE02328

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/17/2001

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rınated Biphenyls	·			
Aroclor 1016	ND	0 0506	μg/g	4/25/01	
Aroclor 1221	ND	0 0506	μg/g	4/25/01	
Clor 1232	ND	0 0506	μg/g	4/25/01	
clor 1242	ND	0 0506	μg/g	4/25/01	
Aroclor 1248	ND	0 0506	μg/g	4/25/01	
Aroclor 1254	0 646	0 0506	μg/g	4/25/01	
Aroclor 1260	0 119	0 0506	μg/g	4/25/01	

Total PCB Amount > Reporting Limit

0 765

μg/g

Note There were few non-target peaks

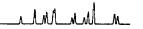
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rhot E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**CUSTOMER ID:** 

SV532-10

NEA ID:

AE02329

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

RESULTS PARAMETER PERFORMED PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0553 4/25/01  $\mu g/g$ Aroclor 1221 ND 0 0553 μg/g 4/25/01 ND pclor 1232 0 0553 4/25/01 μg/g Sclor 1242 ND 0 0553 4/25/01 μg/g Aroclor 1248 ND 0 0553 4/25/01 μg/g 0 0553 Aroclor 1254 0 628 4/25/01 μg/g 0 124 Aroclor 1260 0 0553 4/25/01 µg/g

Total PCB Amount > Reporting Limit

 $0.752 \mu g/g$ 

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

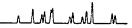
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

Robert E. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> **CERTIFICATE OF ANALYSIS** 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-11

**NEA ID:** 

AE02330

**MATRIX:** 

FISH

**DATE SAMPLED: 04/17/2001** 

DATE RECEIVED:

04/19/2001

**TIME:** 11 00 PROJECT: FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

TIME: N/A

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE LESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0521	μg/g	4/25/01	
Aroclor 1221	ND	0 0521	μg/g	4/25/01	
Clor 1232	ND	0 0521	μg/g	4/25/01	
oclor 1242	ND	0 0521	μg/g	4/25/01	
Aroclor 1248	ND	0 0521	μg/g	4/25/01	
Aroclor 1254	0 691	0 0521	μg/g	4/25/01	
Aroclor 1260	0 115	0 0521	μg/g	4/25/01	

Note There were few non-target peaks

Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD E. Wogn

0.806

μg/g



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV532-12

NEA ID:

AE02331

MATRIX:

FISH

**DATE SAMPLED: 04/17/2001** 

7/2001 **TIME:** N/A

DATE RECEIVED:

04/19/2001

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.0531 4/25/01 μg/g Aroclor 1221 ND 0.0531 4/25/01 μg/g oclor 1232 ND 0.0531 4/25/01 μg/g clor 1242 ND 0 0531 4/25/01 μg/g Aroclor 1248 ND 0.0531 4/25/01 μg/g 0 550 Aroclor 1254 0 0531 4/25/01 μg/g Aroclor 1260 ND 0 0531 4/25/01 μg/g

Total PCB Amount > Reporting Limit

0 550 д

TIME: 11 00

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RAD E. Wogn



(518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-13

**NEA ID:** 

AE02332

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00 PROJECT: **FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** N/A LAB ELAP #: 11078 PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0512 4/26/01 μg/g Aroclor 1221 ND 0 0512 μg/g 4/26/01 oclor 1232 ND 0.0512 4/26/01 μg/g clor 1242 ND 0 0512 4/26/01 μg/g Aroclor 1248 ND 0.0512 μg/g 4/26/01 Aroclor 1254 0 479 0 0512 μg/g 4/26/01 Aroclor 1260 0 0739 0 0512 4/26/01 μg/g

Total PCB Amount > Reporting Limit

0 553 μg/g

Note There were few non-target peaks

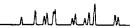
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Robert E. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-14

**NEA ID:** 

AE02426

**MATRIX:** 

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

**DATE RECEIVED:** 

04/20/2001

**TIME: 1030** 

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 217	μg/g	4/26/01	
Aroclor 1221	ND	0.217	μg/g	4/26/01	
pelor 1232	ND	0 217	μg/g	4/26/01	
oclor 1242	0 594	0 217	μg/g	4/26/01	PD
Aroclor 1248	ND	0217	μg/g	4/26/01	
Aroclor 1254	3 25	0 217	μg/g	4/26/01	
Aroclor 1260	0 425	0 217	μg/g	4/26/01	

Total PCB Amount > Reporting Limit

4 27

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rober E. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV532-14 DUP

NEA ID:

AE02444

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

**TIME:** 10 30

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

RESULTS POL UNITS PARAMETER PERFORMED DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 2 1 0 4/27/01 μg/g Aroclor 1221 ND 0 2 1 0 4/27/01 μg/g clor 1232 ND 0 2 1 0 4/27/01 µg/g clor 1242 0719 0 2 1 0 4/27/01 PD μg/g ND 0210 4/27/01 Aroclor 1248 μg/g Aroclor 1254 3 64 0 2 1 0 4/27/01 μg/g Aroclor 1260 0517 0 2 1 0 μg/g 4/27/01

Total PCB Amount > Reporting Limit

4 88 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

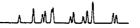
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD I. Worm





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-15

NEA ID:

AE02427

**MATRIX:** 

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

**TIME:** 10 30

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorina	ted Biphenyls				
Aroclor 1016	ND	0 216	μg/g	4/26/01	
Aroclor 1221	ND	0 216	μg/g	4/26/01	
Goclor 1232	ND	0 216	μg/g	4/26/01	
oclor 1242	0 612	0 216	μg/g	4/26/01	PD
Aroclor 1248	ND	0 216	μg/g	4/26/01	
Aroclor 1254	3 26	0216	µg/g	4/26/01	
Aroclor 1260	0 478	0 216	μg/g	4/26/01	
Total PCB Amount > Reporting Limit	4 35 με	g/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV532-16

NEA ID:

AE02428

**MATRIX:** 

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001 **TIME**: 10 30

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	POL	UNITS	DATE TESTED	FLAGS
				DATE TOSTED	
SW-846 Method 8082, Polychlori	nated Biphenyls				
Aroclor 1016	ND	0 163	μg/g	4/26/01	
Aroclor 1221	ND	0 163	μg/g	4/26/01	
11 octor 1232	ND	0 163	μg/g	4/26/01	
oclor 1242	0 540	0 163	μg/g	4/26/01	PD
Aroclor 1248	ND	0 163	μg/g	4/26/01	
Aroclor 1254	2 48	0 163	μg/g	4/26/01	
Aroclor 1260	0 315	0 163	μg/g	4/26/01	
Total PCB Amount > Reporting Lir	nıt 3.34 μg	g/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

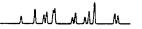
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rito E. Wogn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-17

04/20/2001

NEA ID:

AE02429

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

**TIME:** 10 30 **PROJECT:**  FISH STUDY

**SAMPLED BY:** 

DATE RECEIVED:

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMED PO-

11079

CUSTOMER PO: N/A		LAB E.	LAP#:	11078	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls	-			
Aroclor 1016	ND	0 110	μg/g	4/26/01	
Aroclor 1221	ND	0 110	μg/g	4/26/01	
oclor 1232	ND	0 110	μg/g	4/26/01	
oclor 1242	0 366	0 110	μg/g	4/26/01	PD
Aroclor 1248	ND	0 110	μg/g	4/26/01	
Aroclor 1254	1 91	0 110	μg/g	4/26/01	
Aroclor 1260	0 260	0 110	μg/g	4/26/01	
Total DCD Associate Description I a	254	1-			

Total PCB Amount > Reporting Limit

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

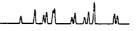
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

Robert E. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV532-18

NEA ID:

AE02430

MATRIX:

FISH

**DATE SAMPLED: 04/18/2001** 

18/2001 **TIME:** N/A

DATE RECEIVED:

04/20/2001

TIME: 10 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

RESULTS	PQL	UNITS	DATE TESTED	FLAGS
rinated Biphenyls				
ND	0 105	μg/g	4/27/01	
ND	0 105	μg/g	4/27/01	
ND	0 105	μg/g	4/27/01	
0 283	0 105	μg/g	4/27/01	PD
ND	0 105	μg/g	4/27/01	
1 56	0 105	μg/g	4/27/01	
0 220	0 105	μg/g	4/27/01	
	ND ND ND ND 0 283 ND 1 56	ND 0 105 ND 0 105 ND 0 105 ND 0 105 ND 0 105 0 283 0 105 ND 0 105 1 56 0 105	ND 0 105 μg/g 0 283 0 105 μg/g ND 0 105 μg/g ND 0 105 μg/g	ND 0 105 μg/g 4/27/01 0 283 0 105 μg/g 4/27/01 ND 0 105 μg/g 4/27/01 ND 0 105 μg/g 4/27/01 1 56 0 105 μg/g 4/27/01

Total PCB Amount > Reporting Limit

2 06 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD I. Wogn

#### NORTHEAST ANALYTICAL MA MARA



(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-19

04/20/2001

NEA ID:

AE02431

**MATRIX:** 

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

**TIME: 1030** 

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 107 4/27/01 μg/g Aroclor 1221 ND 0 107 4/27/01 μg/g oclor 1232 ND 0 107 4/27/01 μg/g octor 1242 0.134 0 107 4/27/01 PD μg/g ND Aroclor 1248 0 107 4/27/01  $\mu g/g$ Aroclor 1254 1 14 4/27/01 0 107 μg/g Aroclor 1260 0 148 0 107 4/27/01 μg/g

Total PCB Amount > Reporting Limit

1 42 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

RID E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

# CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID:

SV532-20

NEA ID:

AE02432

MATRIX:

FISH

DATES

**DATE SAMPLED: 04/18/2001** 

DATE RECEIVED:

04/20/2001

TIME: 10 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

TIME: N/A

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

UNITS PARAMETER PERFORMED RESULTS PQL DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 104 4/27/01 μg/g ND Aroclor 1221 0 104 μg/g 4/27/01 clor 1232 ND 0 104 4/27/01 μg/g clor 1242 ND 0 104 4/27/01 μg/g ND Aroclor 1248 0 104 μg/g 4/27/01 Aroclor 1254 0.955 0 104 μg/g 4/27/01 Aroclor 1260 0.136 0 104 4/27/01 μg/g

Total PCB Amount > Reporting Limit

1 09

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober I. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID:

SV532-21

NEA ID:

AE02433

MATRIX:

FISH

**DATE SAMPLED:** 04/18/2001

001 **TIME:** N/A

DATE RECEIVED:

04/20/2001

TIME: 10 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

CUSTOMERFO: N/A		LAD ELAP #: 110/8		11078	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 107	μg/g	4/27/01	
Aroclor 1221	ND	0 107	μg/g	4/27/01	
oclor 1232	ND	0 107	μg/g	4/27/01	
oclor 1242	0.174	0 107	μg/g	4/27/01	PD
Aroclor 1248	ND	0 107	μg/g	4/27/01	
Aroclor 1254	1 33	0 107	μg/g	4/27/01	
Aroclor 1260	0 182	0 107	μg/g	4/27/01	
Total PCB Amount > Reporting Lii	mit 169 μg	y/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RH I. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-22

NEA ID:

AE02434

MATRIX:

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

**TIME: 1030** PROJECT: **FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

CUSTOMER PO-

 $NI/\Delta$ 

LARELAP#.

11078

CUSTOMER PO: N/A		LAB E	LAP#:	110/8	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls		<del> </del>		
Aroclor 1016	ND	0.165	μg/g	4/27/01	
Aroclor 1221	ND	0.165	μg/g	4/27/01	
Clor 1232	ND	0.165	μg/g	4/27/01	
oclor 1242	0 369	0.165	μg/g	4/27/01	PD
Aroclor 1248	ND	0.165	μg/g	4/27/01	
Aroclor 1254	2 75	0 165	μg/g	4/27/01	
Aroclor 1260	0 402	0 165	μg/g	4/27/01	
Total BCB Amount > Paparting L	mit 2.52 u.o	- le-			

Total PCB Amount > Reporting Limit

3 52 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

Rho E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

# CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV532-23

NEA ID:

AE02435

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/18/2001

TIME: N/A

DATE RECEIVED:

04/20/2001

**TIME:** 10 30 **PRO** 

**PROJECT:** 

FISH STUDY

**CLEMSON SC** 

**SAMPLED BY:** 

J ORR

LOCATION:

CUSTOMER PO: N/A		LAB ELAP #:				
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	unated Biphenyls					
Aroclor 1016	ND	0 0550	μg/g	4/27/01		
Aroclor 1221	ND	0 0550	μg/g	4/27/01		
Clor 1232	ND	0 0550	μg/g	4/27/01		
Sclor 1242	0 206	0.0550	μg/g	, 4/27/01	PD	
Aroclor 1248	ND	0 0550	μg/g	4/27/01		
Aroclor 1254	1 09	0 0550	μg/g	4/27/01		
Aroclor 1260	0 150	0.0550	μg/g	4/27/01		

Total PCB Amount > Reporting Limit

145 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

Robert E. Wagn

#### NORTHEAST ANALYTICAL MANAMA



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-24

04/20/2001

NEA ID:

AE02436

**MATRIX:** 

FISH

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

**TIME: 1030** 

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinate	d Biphenyls				
Aroclor 1016	ND	0 0516	μg/g	4/27/01	
Aroclor 1221	ND	0 0516	μg/g	4/27/01	
Coclor 1232	ND	0 0516	μg/g	4/27/01	
oclor 1232 Oclor 1242	0 139	0 0516	μg/g	4/27/01	PD
Aroclor 1248	ND	0 0516	μg/g	4/27/01	
Aroclor 1254	1 46	0 0516	μg/g	4/27/01	
Aroclor 1260	0 216	0 0516	μg/g	4/27/01	
Total PCB Amount > Reporting Limit	181 дд	/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rober E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** SV532-24 DUP

NEA ID:

AE02445

MATRIX:

**DATE SAMPLED: 04/18/2001** 

**FISH** 

**TIME:** 10 30 PROJECT:

**FISH STUDY** 

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

04/20/2001 J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls ND 0.0542 4/27/01 Aroclor 1016 μg/g Aroclor 1221 ND 0 0542 4/27/01 μg/g clor 1232 ND 0 0542 4/27/01 μg/g 0.0955 clor 1242 0 0542 μg/g 4/27/01 PD ND 0 0542 4/27/01 Aroclor 1248 μg/g 1.05 4/27/01 Aroclor 1254 0 0542 μg/g Aroclor 1260 0 133 0 0542 μg/g 4/27/01

Total PCB Amount > Reporting Limit

1 28 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

RATE E. Wogn

#### NORTHEAST ANALYTICAL A MA IN TANA A



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-25

NEA ID:

AE02437

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

PROJECT: TIME: 1030

**FISH STUDY CLEMSON SC** 

SAMPLED BY:

J ORR

LOCATION:

**CUSTOMER PO:** N/A LAB ELAP #: 11078 PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0543 4/27/01  $\mu g/g$ Aroclor 1221 ND 0 0543 μg/g 4/27/01 clor 1232 ND 0 0543 4/27/01 μg/g clor 1242 0.0564 PD 0 0543 4/27/01 μg/g ND 0 0543 Aroclor 1248 4/27/01 μg/g 0 504 Aroclor 1254 0 0543 4/27/01 μg/g Aroclor 1260 ND 0 0543 4/27/01 μg/g

Total PCB Amount > Reporting Limit

0 560 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RAD I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

CONTACT: JIM ORR

**CUSTOMER ID:** 

SV532-26

NEA ID:

AE02438

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/18/2001** 

TIME: N/A

DATE RECEIVED:

04/20/2001

**TIME: 1030** PROJECT: **FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

μg/g

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED FLAGS SW-846 Method 8082, Polychlorinated Biphenyls ND Aroclor 1016 0 0542 4/27/01 μg/g Aroclor 1221 ND 0 0542 4/27/01 μg/g clor 1232 ND 0 0542 4/27/01 μg/g clor 1242 ND 0 0542 4/27/01 μg/g Aroclor 1248 ND 0 0542 4/27/01 µg/g 0.808 Aroclor 1254 0 0542 4/27/01 μg/g Aroclor 1260 0 128 0 0542 4/27/01

Total PCB Amount > Reporting Limit

0 936

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Robert E. Wogn

ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV532-27

NEA ID:

AE02449

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 800

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlori	nated Biphenyls					
Aroclor 1016	ND	0 0545	μg/g	4/28/01		
Aroclor 1221	ND	0 0545	μg/g	4/28/01		
oclor 1232	ND	0 0545	μg/g	4/28/01		
oclor 1242	0 125	0 0545	μg/g	4/28/01	PD	
Aroclor 1248	ND	0 0545	μg/g	4/28/01		
Aroclor 1254	141	0 0545	μg/g	4/28/01		
Aroclor 1260	0 223	0 0545	μg/g	4/28/01		
Total PCB Amount > Reporting Lin	nıt 176 μ <u>ε</u>	g/g				

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

RAD E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### **CERTIFICATE OF ANALYSIS** 05/04/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV535-01R

NEA ID:

AE02492

MATRIX:

FISH

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

**TIME: 1030** 

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls			<del></del>	
Aroclor 1016	ND	0 0543	μg/g	5/2/01	
Aroclor 1221	ND	0 0543	μg/g	5/2/01	
Clor 1232	ND	0 0543	μg/g	5/2/01	
Clor 1242	0 104	0 0543	μg/g	5/2/01	PD
Aroclor 1248	ND	0 0543	μg/g	5/2/01	
Aroclor 1254	0 920	0 0543	μg/g	5/2/01	
Aroclor 1260	0 128	0 0543	μg/g	5/2/01	
Total PCB Amount > Reporting Li	mit 115 us	<u>2/g</u>			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

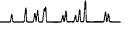
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical. Inc

Robert E Wagner Laboratory Director

Rho I. Wogn





ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV535-2

**NEA ID:** 

AE02450

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

**DATE RECEIVED:** 

04/23/2001

TIME: 800

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO: N/A		LAB ELAP #: 11078			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlori	nated Biphenyls		-		
Aroclor 1016	ND	0 0554	μg/g	4/28/01	
Aroclor 1221	ND	0 0554	μg/g	4/28/01	
Clor 1232	ND	0 0554	μg/g	4/28/01	
Sclor 1242	ND	0 0554	μg/g	4/28/01	
Aroclor 1248	ND	0 0554	μg/g	4/28/01	
Aroclor 1254	0 626	0 0554	μg/g	4/28/01	
Aroclor 1260	0 136	0 0554	μg/g	4/28/01	

Total PCB Amount > Reporting Limit

0 762

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

RHD I. Wagn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

# CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV535-2 DUP

NEA ID:

AE02481

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/19/2001

TIME: N/A

DATE RECEIVED:

04/23/2001

**TIME:** 8 00

**PROJECT:** 

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

N/A

LAB ELAP #:

11078

CUSTOMER PO: N/A		LABE	LAP#:		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls	· · · · · · · · · · · · · · · · · · ·		·	
Aroclor 1016	ND	0 0533	μg/g	4/28/01	
Aroclor 1221	ND	0 0533	μg/g	4/28/01	
oclor 1232	ND	0 0533	μg/g	4/28/01	
oclor 1242	ND	0 0533	μg/g	4/28/01	
Aroclor 1248	ND	0 0533	μg/g	4/28/01	
Aroclor 1254	0 546	0 0533	μg/g	4/28/01	
Aroclor 1260	0 129	0 0533	μg/g	4/28/01	

Total PCB Amount > Reporting Limit

0 675

 $\mu g/g$ 

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RAD E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/03/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV535-3

**NEA ID:** 

AE02451

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

**TIME:** 8 00

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls	· · · · · · · · · · · · · · · · · · ·			
Aroclor 1016	ND	0.0542	μg/g	4/28/01	
Aroclor 1221	ND	0 0542	μg/g	4/28/01	
clor 1232	ND	0 0542	μg/g	4/28/01	
Sclor 1242	ND	0 0542	μg/g	4/28/01	
Aroclor 1248	ND	0 0542	μg/g	4/28/01	
Aroclor 1254	0 200	0 0542	μg/g	4/28/01	
Aroclor 1260	ND	0 0542	μg/g	4/28/01	

Total PCB Amount > Reporting Limit

0 200 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV535-4

NEA ID:

AE02452

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 8 00

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0530 4/28/01 μg/g Aroclor 1221 ND 0 0530 4/28/01 μg/g ND oclor 1232 0 0530 4/28/01 μg/g l oclor 1242 ND 0 0530 4/28/01 μg/g Aroclor 1248 ND 0 0530 4/28/01 μg/g Aroclor 1254 0 166 0 0530 4/28/01 μg/g ND Aroclor 1260 0 0530 μg/g 4/28/01

Total PCB Amount > Reporting Limit

0 166 μg/g

Note There were several non-target peaks

Note  $\,$  ND (Not Detected) Denotes analyte not detected at a concentration greater than the  $\,$ PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

### NORTHEAST ANALYTICAL MA MAL



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV535-4 DUP

NEA ID:

AE02482

**MATRIX:** 

**FISH** 

**DATE SAMPLED:** 04/19/2001

TIME: N/A

DATE RECEIVED:

04/23/2001

**TIME:** 8 00

**PROJECT:** 

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 0554	μg/g	4/29/01	
Aroclor 1221	ND	0 0554	μg/g	4/29/01	
Clor 1232	ND	0 0554	μg/g	4/29/01	
clor 1242	ND	0 0554	μg/g	4/29/01	
Aroclor 1248	ND	0 0554	μg/g	4/29/01	
Aroclor 1254	0 164	0 0554	μg/g	4/29/01	
Aroclor 1260	ND	0 0554	μg/g	4/29/01	

Total PCB Amount > Reporting Limit

0 164 μg/g

Note There were several non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

**CUSTOMER ID:** 

SV535-5

04/23/2001

NEA ID:

AE02453

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

TIME: 800

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0551 4/28/01 μg/g Aroclor 1221 ND 0.0551 4/28/01 μg/g ND 4/28/01 oclor 1232 0 0551 μg/g oclor 1242 ND 4/28/01 0 0551 μg/g ND 0.0551 4/28/01 Aroclor 1248 μg/g Aroclor 1254 0 228 0.0551 4/28/01 μg/g Aroclor 1260 ND 0.0551 μg/g 4/28/01

Total PCB Amount > Reporting Limit

0 228 L

3 μg/g

Note There were several non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

Rober E. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> **CERTIFICATE OF ANALYSIS** 05/03/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV535-6

NEA ID:

AE02454

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/19/2001

TIME: N/A

DATE RECEIVED:

04/23/2001

**TIME: 800** PROJECT: **FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUCTOMED DO.

NI/A

LADELAD#.

11070

CUSTOMER PO: N/A		LAB ELAP #: 110/8				
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorin	ated Biphenyls	···			-	
Aroclor 1016	ND	0 0554	μg/g	4/28/01		
Aroclor 1221	ND	0 0554	μg/g	4/28/01		
pelor 1232	ND	0 0554	μg/g	4/28/01		
Loclor 1242	ND	0 0554	μg/g	4/28/01		
Aroclor 1248	ND	0 0554	μg/g	4/28/01		
Aroclor 1254	0 161	0 0554	μg/g	4/28/01		
Aroclor 1260	ND	0 0554	μg/g	4/28/01		

Total PCB Amount > Reporting Limit

Note There were several non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robert E. Wogm

0 161

μg/g





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV535-7

NEA ID:

AE02455

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS **PQL** UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0543 4/28/01 μg/g Aroclor 1221 ND 0 0543 4/28/01 μg/g oclor 1232 ND 0 0543 4/28/01 μg/g clor 1242 ND 0 0543 μg/g 4/28/01 Aroclor 1248 ND 0.0543 4/28/01 μg/g 0 136 Aroclor 1254 0 0543 4/28/01 μg/g Aroclor 1260 ND 0 0543 4/28/01 μg/g

Total PCB Amount > Reporting Limit

0 136

TIME: 800

μg/g

Note There were several non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

POL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rhot I. Wom





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**CUSTOMER ID:** 

SV535-8

NEA ID:

AE02456

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS **PQL** UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0555 4/28/01 μg/g Aroclor 1221 ND 0 0555 4/28/01 μg/g oclor 1232 ND 0 0555 4/28/01 μg/g oclor 1242 ND 0 0555 μg/g 4/28/01 4/28/01 Aroclor 1248 ND 0 0555 μg/g Aroclor 1254 0 0735 4/28/01 0 0555 μg/g Aroclor 1260 ND 0 0555 μg/g 4/28/01

Total PCB Amount > Reporting Limit

0 0735 μg/g

**TIME: 800** 

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

#### NORTHEAST ANALYTICAL A MARA AMA



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV535-9

**NEA ID:** 

AE02457

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

**TIME: 800** PROJECT: **FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0553 4/28/01 μg/g Aroclor 1221 ND 0 0553 4/28/01 μg/g oclor 1232 ND 0 0553 4/28/01 μg/g octor 1242 ND 0 0553 4/28/01 μg/g Aroclor 1248 ND 0 0553 4/28/01 μg/g Aroclor 1254 0.120 0 0553 μg/g 4/28/01 Aroclor 1260 0 0571 0 0553 4/28/01 μg/g

Total PCB Amount > Reporting Limit

0 177 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV535-10

NEA ID:

AE02458

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/19/2001

1 2002 100

TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 8 00

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0551 4/28/01 μg/g Aroclor 1221 ND 0.0551 4/28/01 μg/g clor 1232 ND 0 0551 4/28/01 μg/g clor 1242 ND 0.0551 μg/g 4/28/01 0 0551 Aroclor 1248 ND 4/28/01 μg/g 0 209 Aroclor 1254 0 0551 4/28/01 μg/g Aroclor 1260 0 0565 0.0551 4/28/01 μg/g

Total PCB Amount > Reporting Limit

 $0.266 \mu g/g$ 

Note There were few non-target peaks

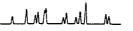
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober E. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV535011R

**NEA ID:** 

AE02895

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/27/2001

TIME: N/A

DATE RECEIVED:

05/01/2001

TIME: 10 00

**PROJECT:** 

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CHICTOMED DO.

NI/A

LADELAD#.

11070

CUSTOMIER PO: N/A		LAB EI			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls	·			
Aroclor 1016	ND	0 0507	μg/g	5/13/01	
Aroclor 1221	ND	0 0507	μg/g	5/13/01	
oclor 1232	ND	0 0507	μg/g	5/13/01	
oclor 1242	ND	0.0507	μg/g	5/13/01	
Aroclor 1248	ND	0.0507	μg/g	5/13/01	
Aroclor 1254	ND	0 0507	μg/g	5/13/01	
Aroclor 1260	ND	0 0507	μg/g	5/13/01	

Total PCB Amount > Reporting Limit

0.00

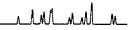
μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director





ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV535-12

NEA ID:

AE02460

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

04/23/2001

**TIME: 8.00** 

PROJECT:

FISH STUDY

TIME: N/A

**SAMPLED BY:** 

DATE RECEIVED:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls		-		
Aroclor 1016	ND	0 0549	μg/g	4/28/01	
Aroclor 1221	ND	0 0549	μg/g	4/28/01	
pelor 1232	ND	0 0549	μg/g	4/28/01	
oclor 1242	ND	0 0549	μg/g	4/28/01	
Aroclor 1248	ND	0 0549	μg/g	4/28/01	
Aroclor 1254	0 218	0 0549	μg/g	4/28/01	
Aroclor 1260	ND	0 0549	μg/g	4/28/01	

Total PCB Amount > Reporting Limit

0.218 μg/g

Note There were several non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rober I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV535-13

NEA ID:

AE02461

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

**TIME: 800** 

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CHCTOMED DO

3.7/A

TABELAB#.

11070

CUSTOMER PO: N/A		LAB ELAP #: 110/8			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorin	ated Biphenyls	<del>-</del>			<u> </u>
Aroclor 1016	ND	0 0542	μg/g	4/28/01	
Aroclor 1221	ND	0 0542	μg/g	4/28/01	
pelor 1232	ND	0 0542	μg/g	4/28/01	
oclor 1242	0 0674	0 0542	μg/g	4/28/01	PD
Aroclor 1248	ND	0 0542	μg/g	4/28/01	
Aroclor 1254	1 50	0 0542	μg/g	4/28/01	
Aroclor 1260	0 300	0 0542	μg/g	4/28/01	
Total PCB Amount > Reporting Lim	ıt 1.87 μ <u>ι</u>	g/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

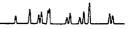
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

POL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/03/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV535-14

NEA ID:

AE02462

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

**TIME: 800** 

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO: N/A		LAB EI	11078		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESFED	FLAGS
SW-846 Method 8082, Polychlor	nated Biphenyls				
Aroclor 1016	ND	0 0539	μg/g	4/30/01	
Aroclor 1221	ND	0 0539	μg/g	4/30/01	
oclor 1232	ND	0 0539	μg/g	4/30/01	
Loclor 1242	ND	0 0539	μg/g	4/30/01	
Aroclor 1248	ND	0 0539	μg/g	4/30/01	
Aroclor 1254	0 799	0 0539	μg/g	4/30/01	
Aroclor 1260	0 195	0 0539	μg/g	4/30/01	

Note There were few non-target peaks

Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

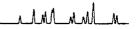
Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD E. Wagn

0.994

μg/g





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV535-15

NEA ID:

AE02463

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/19/2001

----

DATE RECEIVED:

04/23/2001

TIME: 8 00 PROJECT:

r. E

FISH STUDY

TIME: N/A

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.0541 4/30/01 μg/g Aroclor 1221 ND 0 0541 4/30/01 μg/g clor 1232 ND 0 0541 4/30/01 μg/g clor 1242 ND 0 0541 4/30/01 μg/g Aroclor 1248 ND 0 0541 4/30/01 μg/g Aroclor 1254 0 177 4/30/01 0 0541 μg/g ND Aroclor 1260 0 0541 4/30/01 μg/g

Total PCB Amount > Reporting Limit

 $0.177 \mu g/g$ 

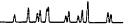
Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical Inc

Robert E Wagner, Laboratory Director





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

CONTACT: JIM ORR

**CUSTOMER ID:** 

SV535-16

NEA ID:

AE02464

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

**TIME: 800** 

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0507 4/30/01 μg/g Aroclor 1221 ND 0 0507 4/30/01 μg/g clor 1232 ND 0 0507 4/30/01 μg/g clor 1242 ND 0 0507 μg/g 4/30/01 Aroclor 1248 ND 0 0507 4/30/01 μg/g Aroclor 1254 0 504 0 0507 4/30/01 μg/g 0 066 Aroclor 1260 0 0507 4/30/01 μg/g

Total PCB Amount > Reporting Limit

0.570

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director



(518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV-535017R

NEA ID:

AE02894

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/27/2001

TIME: N/A

DATE RECEIVED:

05/01/2001

TIME: 10 00 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

		ETT EETT // TTO/O			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorina	ted Biphenyls				
Aroclor 1016	ND	0 266	μg/g	5/13/01	
Aroclor 1221	ND	0 266	μg/g	5/13/01	
pelor 1232	ND	0 266	μg/g	5/13/01	
oclor 1242	0 586	0.266	μg/g	5/13/01	PD
Aroclor 1248	ND	0 266	μg/g	5/13/01	
Aroclor 1254	3 82	0 266	μg/g	5/13/01	
Aroclor 1260	0 556	0 266	μg/g	5/13/01	
Total PCB Amount > Reporting Limit	4 96 με	g/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

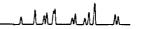
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

obert E Wagner, Laboratory Director

Robb E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 06/19/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV535-18

NEA ID:

AE02466

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

1 TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 800

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls	_ ·			
Aroclor 1016	ND	0 0513	μg/g	6/11/01	
Aroclor 1221	ND	0 0513	μg/g	6/11/01	
Piclor 1232	ND	0 0513	μg/g	6/11/01	
oclor 1242	0 170	0 0513	µg/g	6/11/01	PD
Aroclor 1248	ND	0 0513	μg/g	6/11/01	
Aroclor 1254	1 17	0 0513	μg/g	6/11/01	
Aroclor 1260	0 153	0 0513	μg/g	6/11/01	
Total PCB Amount > Reporting Li	mıt 1 49 μ <u>ε</u>	g/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, inc

bert E Wagner Laboratory Director



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV535-19

NEA ID:

AE02467

MATRIX:

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 8 00 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

000101111111111111111111111111111111111						
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorin	ated Biphenyls					
Aroclor 1016	ND	0 166	μg/g	4/30/01		
Aroclor 1221	ND	0 166	μg/g	4/30/01		
Foclor 1232	ND	0 166	μg/g	4/30/01		
oclor 1242	0 595	0 166	μg/g	4/30/01	PD	
Aroclor 1248	ND	0 166	μg/g	4/30/01		
Aroclor 1254	3 14	0 166	μg/g	4/30/01		
Aroclor 1260	0 499	0 166	$\mu g/g$	4/30/01		
Total PCB Amount > Reporting Lim	ıt 4.23 μg	g/g				

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/04/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV535-20

NEA ID:

AE02487

**MATRIX:** 

FISH

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

**TIME:** 10 30

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	inated Biphenyls				·	
Aroclor 1016	ND	0 206	μg/g	5/1/01		
Aroclor 1221	ND	0 206	μg/g	5/1/01		
clor 1232	ND	0 206	μg/g	5/1/01		
Loclor 1242	0 666	0 206	μg/g	5/1/01	PD	
Aroclor 1248	ND	0 206	μg/g	5/1/01		
Aroclor 1254	3 76	0 206	μg/g	5/1/01		
Aroclor 1260	0 530	0 206	μg/g	5/1/01		
Total PCB Amount > Reporting Li	mit 4.96 ira	o/o				

Total PCB Amount > Reporting Limit

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

rt E Wagner, Laboratory Director

RAD I. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV535-21

NEA ID:

AE02488

MATRIX:

FISH

**DATE SAMPLED:** 04/20/2001

71L02 100

•

TIME: N/A

DATE RECEIVED:

04/24/2001

TIME: 10 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED LOP RESULTS UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.108 5/1/01 μg/g Aroclor 1221 ND 0 108 5/1/01 μg/g ND 0 108 5/1/01 oclor 1232 μg/g oclor 1242 0 132 0 108 5/1/01 PD μg/g Aroclor 1248 ND 0 108 5/1/01 μg/g 1 32 0 108 5/1/01 Aroclor 1254 μg/g Aroclor 1260 0 187 0 108 5/1/01 μg/g

Total PCB Amount > Reporting Limit

164 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV535-22

NEA ID:

AE02489

**MATRIX**:

FISH

**DATE SAMPLED: 04/20/2001** 

)/2001 **TIME:** N/A

DATE RECEIVED:

04/24/2001

TIME: 10 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

N/A

LAB ELAP #:

11078

CUSTOMER PO: N/A		LAB ELAP #: 110/8			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinate	d Biphenyls			· · · · · · · · · · · · · · · ·	
Aroclor 1016	ND	0 105	μg/g	5/1/01	
Aroclor 1221	ND	0 105	μg/g	5/1/01	
Clor 1232	ND	0 105	μg/g	5/1/01	
Loclor 1242	0 335	0 105	μg/g	5/1/01	PD
Aroclor 1248	ND	0 105	μg/g	5/1/01	
Aroclor 1254	2 19	0 105	μg/g	5/1/01	
Aroclor 1260	0 307	0 105	μg/g	5/1/01	
Total PCB Amount > Reporting Limit	2 83	g/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample — Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD E. Wogn



### ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV535-23

NEA ID:

AE02490

MATRIX:

FISH

**DATE SAMPLED: 04/20/2001** 

2001 **TIME:** N/A

DATE RECEIVED:

04/24/2001

**TIME:** 10 30

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TES FED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				<del></del>
Aroclor 1016	ND	0.107	μg/g	5/1/01	
Aroclor 1221	ND	0 107	μg/g	5/1/01	
pelor 1232	ND	0 107	μg/g	5/1/01	
oclor 1242	0 298	0 107	μg/g	5/1/01	PD
Aroclor 1248	ND	0 107	μg/g	5/1/01	
Aroclor 1254	1 47	0 107	μg/g	5/1/01	
Aroclor 1260	0 213	0 107	μg/g	5/1/01	

Total PCB Amount > Reporting Limit

1 98

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

RAD I. Wogm

### NORTHEAST ANALYTICAL MA JML



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/04/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV535-24

NEA ID:

AE02491

**MATRIX:** 

FISH

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

04/24/2001

TIME: 1030

**PROJECT:** 

**FISH STUDY** 

**SAMPLED BY:** 

DATE RECEIVED:

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO-

 $NI/\Delta$ 

LAR ELAP#

11078

COSTOMERTO: N/A		LADE	LAF#:	11078			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS		
SW-846 Method 8082, Polychlorin	ated Biphenyls			<u> </u>			
Aroclor 1016	ND	0 333	μg/g	5/1/01			
Aroclor 1221	ND	0 333	μg/g	5/1/01			
oclor 1232	ND	0 333	μg/g	5/1/01			
oclor 1242	0 831	0 333	μg/g	5/1/01	PD		
Aroclor 1248	ND	0 333	μg/g	5/1/01			
Aroclor 1254	4 99	0 333	μg/g	5/1/01			
Aroclor 1260	0 760	0 333	μg/g	5/1/01			
Total PCB Amount > Reporting Lim	ıt 658 μg	g/g					

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHE E. Wogn

#### NORTHEAST ANALYTICAL m Amana



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-01

NEA ID:

AE02468

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

04/23/2001

TIME: 800 PROJECT: **FISH STUDY** 

TIME: N/A

**SAMPLED BY:** 

DATE RECEIVED:

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMED PO-

 $NI/\Delta$ 

LARTIAD#.

11078

CUSTOMER PO: N/A		LABE	LAP#:	11078	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorina	ated Biphenyls				
Aroclor 1016	ND	0 0534	μg/g	4/30/01	
Aroclor 1221	ND	0 0534	μg/g	4/30/01	
10 oclor 1232	ND	0 0534	μg/g	4/30/01	
oclor 1242	ND	0 0534	μg/g	4/30/01	
Aroclor 1248	ND	0 0534	μg/g	4/30/01	
Aroclor 1254	0 0688	0 0534	μg/g	4/30/01	
Aroclor 1260	0 0563	0 0534	μg/g	4/30/01	

Total PCB Amount > Reporting Limit

0 125 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

RAD E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV641-01 DUP

NEA ID:

AE02483

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 8 00

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0517 5/1/01 μg/g Aroclor 1221 ND 0 0517 5/1/01 μg/g clor 1232 ND 0 0517 5/1/01 μg/g clor 1242 ND 0.0517 μg/g 5/1/01 Aroclor 1248 ND 0 0517 5/1/01 μg/g 0 169 5/1/01 Aroclor 1254 0 0517 μg/g Aroclor 1260 0 0956 0 0517 5/1/01 μg/g

Total PCB Amount > Reporting Limit

0 265

μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rober E. Wagn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

**CUSTOMER ID:** 

SV641-02

NEA ID:

AE02469

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/19/2001

. . . . . . . . . . . .

DATE RECEIVED:

04/23/2001

TIME: 8 00

**PROJECT:** 

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

TIME: N/A

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED PQL UNITS DATE TESTED RESULTS **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.0518 4/30/01 μg/g Aroclor 1221 ND 0.0518 μg/g 4/30/01 4/30/01 oclor 1232 ND 0 0518 μg/g clor 1242 ND 0.0518 4/30/01 μg/g Aroclor 1248 ND 0 0518 4/30/01 μg/g 0.0954 4/30/01 Aroclor 1254 0 0518 μg/g ND 0.0518 4/30/01 Aroclor 1260 μg/g

Total PCB Amount > Reporting Limit

 $0.0954 \mu g/g$ 

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner Laboratory Director



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV641-03

NEA ID:

AE02470

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/19/2001

TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 8 00

**PROJECT:** 

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

COSTONERIO. IVA		LAD E	uai m.	11078	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 0539	μg/g	4/30/01	
Aroclor 1221	ND	0 0539	μg/g	4/30/01	
11 pelor 1232	ND	0 0539	μg/g	4/30/01	
oclor 1242	ND	0 0539	μg/g	4/30/01	
Aroclor 1248	ND	0 0539	μg/g	4/30/01	
Aroclor 1254	0 0595	0 0539	μg/g	4/30/01	
Aroclor 1260	ND	0 0539	μg/g	4/30/01	

Total PCB Amount > Reporting Limit

0 0595 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

RHD E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV641-04

NEA ID:

AE02471

MATRIX:

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 800

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS **PQL** UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0546 5/1/01 μg/g Aroclor 1221 ND 0 0546 5/1/01 μg/g clor 1232 ND 5/1/01 0 0546 µg/g clor 1242 ND 0 0546 5/1/01 μg/g Aroclor 1248 ND 0.0546 5/1/01 μg/g Aroclor 1254 ND 0 0546 5/1/01 μg/g ND Aroclor 1260 0 0546 5/1/01  $\mu g/g$ 

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

Robb E. Wogn

0.00

μg/g



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

DATE RECEIVED:

SV641-05

NEA ID:

AE02472

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

04/23/2001

**TIME: 800** 

PROJECT:

FISH STUDY

TIME: N/A

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0545 5/1/01 μg/g Aroclor 1221 ND 0 0545 5/1/01 μg/g oclor 1232 ND 0.0545 5/1/01 μg/g clor 1242 ND 0.0545 μg/g 5/1/01 ND 0 0545 5/1/01 Aroclor 1248 μg/g 0 104 5/1/01 Aroclor 1254 0 0545 μg/g ND Aroclor 1260 0 0545 μg/g 5/1/01

Total PCB Amount > Reporting Limit

0 104 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner Laboratory Director



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/16/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-06R

NEA ID:

AE02831

MATRIX:

FISH

**DATE SAMPLED: 04/25/2001** 

TIME: N/A

DATE RECEIVED:

04/27/2001

**TIME: 1030** 

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

CUSTOMER PO: N/A		LAB E	LAP#:		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlori	nated Biphenyls		-		
Aroclor 1016	ND	0 0543	μg/g	5/13/01	
Aroclor 1221	ND	0 0543	μg/g	5/13/01	
Clor 1232	ND	0 0543	μg/g	5/13/01	
Coclor 1242	ND	0 0543	μg/g	5/13/01	
Aroclor 1248	ND	0.0543	μg/g	5/13/01	
Aroclor 1254	ND	0 0543	μg/g	5/13/01	
Aroclor 1260	ND	0 0543	μg/g	5/13/01	
Total PCB Amount > Reporting Lin	nıt 0 00 με	g/g			

Note There were few non-target peaks

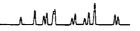
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

### CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-07

NEA ID:

AE02474

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/19/2001** 

04/23/2001

PROJECT:

FISH STUDY

TIME: N/A

**SAMPLED BY:** 

DATE RECEIVED:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	unated Biphenyls	-	,	· · · · · · · · · · · · · · · · · · ·		
Aroclor 1016	ND	0 0533	μg/g	5/1/01		
Aroclor 1221	ND	0.0533	μg/g	5/1/01		
pelor 1232	ND	0 0533	μg/g	5/1/01		
Coclor 1242	ND	0 0533	μg/g	5/1/01		
Aroclor 1248	ND	0 0533	μg/g	5/1/01		
Aroclor 1254	0 0537	0.0533	μg/g	5/1/01		
Aroclor 1260	ND	0 0533	μg/g	5/1/01		

Total PCB Amount > Reporting Limit

 $0.0537 \mu g/g$ 

**TIME: 800** 

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director



2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 **BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-08

NEA ID:

AE02475

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/19/2001

TIME: N/A

DATE RECEIVED:

04/23/2001

**TIME: 800** 

**PROJECT:** 

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0534	μg/g	5/1/01	
Aroclor 1221	ND	0 0534	μg/g	5/1/01	
Clor 1232	ND	0 0534	μg/g	5/1/01	
clor 1242	ND	0 0534	μg/g	5/1/01	
Aroclor 1248	ND	0 0534	μg/g	5/1/01	
Aroclor 1254	0 0746	0 0534	μg/g	5/1/01	
Aroclor 1260	ND	0 0534	μg/g	5/1/01	

Total PCB Amount > Reporting Limit

0 0746 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

Rober I. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 06/19/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-09

NEA ID:

AE02476

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

**TIME: 800** PROJECT: **FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.0519 6/10/01 μg/g Aroclor 1221 ND 0 0519 6/10/01 μg/g oclor 1232 ND 0 0519 6/10/01 μg/g oclor 1242 0 0697 0 0519 6/10/01 PD μg/g Aroclor 1248 ND 0 0519 6/10/01 μg/g Aroclor 1254 0 642 0 0519 6/10/01 μg/g Aroclor 1260 0 108 0.0519 6/10/01 μg/g

Total PCB Amount > Reporting Limit

0 820 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

bert E Wagner, Laboratory Director

Rho I. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 06/19/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-10

NEA ID:

AE02477

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 800

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

N/A

LAB ELAP #:

11078

COSTOMERTO. 1077		DAD EI	unu m.	11076	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0539	μg/g	6/10/01	
Aroclor 1221	ND	0 0539	μg/g	6/10/01	
clor 1232	ND	0 0539	μg/g	6/10/01	
clor 1242	ND	0 0539	μg/g	6/10/01	
Aroclor 1248	ND	0 0539	μg/g	6/10/01	
Aroclor 1254	0 182	0 0539	μg/g	6/10/01	
Aroclor 1260	ND	0 0539	μg/g	6/10/01	

Total PCB Amount > Reporting Limit

0 182

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director



2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/03/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR CUSTOMER ID:** SV641-11 NEA ID:

**TIME: 800** 

AE02478

**MATRIX:** 

FISH

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

**PROJECT:** 

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 0517	μg/g	5/1/01	
Aroclor 1221	ND	0.0517	μg/g	5/1/01	
oclor 1232	ND	0 0517	μg/g	5/1/01	
oclor 1242	ND	0 0517	μg/g	5/1/01	
Aroclor 1248	ND	0 0517	μg/g	5/1/01	
Aroclor 1254	0 0665	0 0517	μg/g	5/1/01	
Aroclor 1260	ND	0 0517	μg/g	5/1/01	

Total PCB Amount > Reporting Limit

0 0665 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-12R

NEA ID:

AE02896

**MATRIX:** 

FISH

J ORR

**DATE SAMPLED: 04/27/2001** 

TIME: N/A

DATE RECEIVED:

05/01/2001

**TIME: 10 00** PROJECT: FISH STUDY

**SAMPLED BY:** 

LOCATION:

**CLEMSON SC** 

11078

**CUSTOMER PO:** N/A LAB ELAP #: PARAMETER PERFORMED **RESULTS** PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0516 5/13/01 μg/g Aroclor 1221 ND 0.0516 5/13/01 μg/g oclor 1232 ND 0 0516 5/13/01 μg/g clor 1242 ND 0 0516 5/13/01 μg/g Aroclor 1248 ND 0 0516 μg/g 5/13/01 0 252 Aroclor 1254 5/13/01 0 0516 μg/g Aroclor 1260 0.0682 0 0516 5/13/01 μg/g

Total PCB Amount > Reporting Limit

0 320 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV641-13

NEA ID:

AE02494

**MATRIX:** 

FISH

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

TIME: 10 30

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

N/A

LAB ELAP #:

11078

COSTOMERTO. INA		LADE	LAI #;	11078	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinat	ed Biphenyls				
Aroclor 1016	ND	0.154	μg/g	5/2/01	
Aroclor 1221	ND	0 154	μg/g	5/2/01	
oclor 1232	ND	0 154	μg/g	5/2/01	
oclor 1242	0 386	0 154	μg/g	5/2/01	PD
Aroclor 1248	ND	0.154	μg/g	5/2/01	
Aroclor 1254	2.99	0 154	μg/g	5/2/01	
Aroclor 1260	0 458	0 154	μg/g	5/2/01	
Total PCB Amount > Reporting Limit	3 83 - μg	g/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober I. Wagn

## NORTHEAST ANALYTICAL MAMANA MALA



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-14R

NEA ID:

AE02897

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/27/2001** 

TIME: N/A

DATE RECEIVED:

05/01/2001

**TIME:** 10 00 PROJECT: **FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorina	ited Biphenyls			<del></del>	
Aroclor 1016	ND	0 104	μg/g	5/13/01	
Aroclor 1221	ND	0.104	μg/g	5/13/01	
Clor 1232	ND	0 104	μg/g	5/13/01	
clor 1242	0 435	0 104	μg/g	5/13/01	PD
Aroclor 1248	ND	0 104	μg/g	5/13/01	
Aroclor 1254	2 86	0 104	μg/g	5/13/01	
Aroclor 1260	0 483	0 104	μg/g	5/13/01	
Total PCB Amount > Reporting Limit	: 3.78 µg	u/g			

Total PCB Amount > Reporting Limit

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD I. Wogm



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 09/06/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID:

SV641-15

NEA ID:

AE02517

**MATRIX:** 

FISH

**DATE SAMPLED: 04/20/2001** 

1 TIME: N/A

DATE RECEIVED:

04/24/2001

TIME: 10 30 PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNIIS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorinate	ed Biphenyls					_
Aroclor 1016	ND	0 0550	μg/g	5/3/01		
Aroclor 1221	ND	0 0550	μg/g	5/3/01		
oclor 1232	ND	0 0550	μg/g	5/3/01		
oclor 1242	ND	0 0550	μg/g	5/3/01		
Aroclor 1248	ND	0 0550	μg/g	5/3/01		
Aroclor 1254	ND	0 0550	μg/g	5/3/01		
Aroclor 1260	ND	0 0550	μg/g	5/3/01		
Total PCB Amount > Reporting Limit	0 00	μg/g				

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

bert E Wagner, Laboratory Director

Ritt E. Worm





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 09/06/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV641-16

**NEA ID:** 

AE02518

MATRIX:

**FISH** 

J ORR

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

TIME: 1030 PROJECT: **FISH STUDY** 

SAMPLED BY:

DATE RECEIVED:

04/24/2001

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinate	d Biphenyls				
Aroclor 1016	ND	0 0514	μg/g	5/3/01	
Aroclor 1221	ND	0 0514	μg/g	5/3/01	
clor 1232	ND	0 0514	μg/g	5/3/01	
clor 1242	ND	0 0514	μg/g	5/3/01	
Aroclor 1248	ND	0 0514	μg/g	5/3/01	
Aroclor 1254	ND	0 0514	μg/g	5/3/01	
Aroclor 1260	ND	0 0514	μg/g	5/3/01	
Total PCB Amount > Reporting Limit	0 00	μg/g			

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RAD E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-17

NEA ID:

AE02826

MATRIX:

FISH

**DATE SAMPLED: 04/25/2001** 

TIME: N/A

DATE RECEIVED:

04/27/2001

**TIME:** 10 30

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	inated Biphenyls	<del></del>				-
Aroclor 1016	ND	0 0505	μg/g	5/13/01		
Aroclor 1221	ND	0 0505	μg/g	5/13/01		
oclor 1232	ND	0 0505	μg/g	5/13/01		
oclor 1242	ND	0 0505	μg/g	5/13/01		
Aroclor 1248	ND	0 0505	μg/g	5/13/01		
Aroclor 1254	0 858	0 0505	μg/g	5/13/01		
Aroclor 1260	0 152	0 0505	μg/g	5/13/01		

Total PCB Amount > Reporting Limit

1.01

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober I. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 **BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

CUSTOMER ID:

SV641-17 DUP

NEA ID:

AE02836

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/25/2001** 

04/27/2001

**TIME:** 10 30

PROJECT:

**FISH STUDY** 

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 0512	μg/g	5/13/01	
Aroclor 1221	ND	0 0512	μg/g	5/13/01	
Clor 1232	ND	0 0512	μg/g	5/13/01	
clor 1242	ND	0 0512	μg/g	5/13/01	
Aroclor 1248	ND	0 0512	μg/g	5/13/01	
Aroclor 1254	0 661	0 0512	μg/g	5/13/01	
Aroclor 1260	0.109	0 0512	μg/g	5/13/01	

Total PCB Amount > Reporting Limit

0 770 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rhot I. Wogm

## NORTHEAST ANALYTICAL a lan rah

ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-18

NEA ID:

AE02827

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/25/2001** 

TIME: N/A

DATE RECEIVED:

04/27/2001

TIME: 1030 PROJECT: **FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 102 5/13/01 μg/g Aroclor 1221 ND 0 102 μg/g 5/13/01 oclor 1232 ND 0 102 5/13/01 μg/g oclor 1242 ND 0 102 5/13/01 μg/g ND 0 102 Aroclor 1248 5/13/01 μg/g 3 67 Aroclor 1254 0.102 5/13/01 μg/g Aroclor 1260 0 620 0.102 5/13/01 μg/g

Total PCB Amount > Reporting Limit

4 29

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober I. Wogn



## CERTIFICATE OF ANALYSIS 05/16/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-19

NEA ID:

AE02828

**MATRIX:** 

FISH

**DATE SAMPLED: 04/25/2001** 

04/27/2001

**TIME:** 10 30 PROJECT: **FISH STUDY** 

SAMPLED BY:

DATE RECEIVED:

J ORR

LOCATION:

**CLEMSON SC** 

TIME: N/A

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	inated Biphenyls					
Aroclor 1016	ND	0 0555	μg/g	5/13/01		
Aroclor 1221	ND	0 0555	μg/g	5/13/01		
clor 1232	ND	0 0555	μg/g	5/13/01		
clor 1242	0 108	0 0555	μg/g	5/13/01	PD	
Aroclor 1248	ND	0 0555	μg/g	5/13/01		
Aroclor 1254	0 882	0 0555	μg/g	5/13/01		
Aroclor 1260	0 147	0 0555	μg/g	5/13/01		

Total PCB Amount > Reporting Limit

1 14 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

Rober E. Wogn

## NORTHEAST ANALYTICAL M Make Miles a

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/16/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-20

NEA ID:

AE02829

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/25/2001** 

TIME: N/A

**FLAGS** 

PD

DATE RECEIVED:

04/27/2001

TIME: 10 30

PROJECT:

FISH STUDY **CLEMSON SC** 

DATE TESTED

5/13/01

**SAMPLED BY:** 

**CUSTOMER PO:** 

PARAMETER PERFORMED

J ORR

N/A

LOCATION: LAB ELAP #:

UNITS

μg/g

POL

0.103

11078

SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND

Aroclor 1221 ND 0 103 μg/g 5/13/01 clor 1232 ND 0 103 5/13/01 μg/g clor 1242 0.438 0.103 5/13/01 μg/g ND 0 103 Aroclor 1248 5/13/01 μg/g 2 50 Aroclor 1254 0.103 5/13/01 μg/g Aroclor 1260 0 3 7 8 0 103 5/13/01 μg/g

RESULTS

Total PCB Amount > Reporting Limit

3 32 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

RHD I. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-21

NEA ID:

AE02830

**MATRIX:** 

FISH

J ORR

DATE SAMPLED: 04/25/2001

11102030

.....

04/27/2001

TIME: 10 30 PROJECT:

**FISH STUDY** 

TIME: N/A

**SAMPLED BY:** 

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

DATE RECEIVED:

N/A

LAB ELAP #:

11078

000101111111111111111111111111111111111			3. 1.2 // (	,		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	rinated Biphenyls		<del> </del>			
Aroclor 1016	ND	0 0534	μg/g	5/13/01		
Aroclor 1221	ND	0 0534	μg/g	5/13/01		
clor 1232	ND	0 0534	μg/g	5/13/01		
Sclor 1242	ND	0 0534	μg/g	5/13/01		
Aroclor 1248	ND	0 0534	μg/g	5/13/01		
Aroclor 1254	0 270	0 0534	μg/g	5/13/01		
Aroclor 1260	0 0721	0 0534	μg/g	5/13/01		

Total PCB Amount > Reporting Limit

0 342 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Robert E. Wagn

## NORTHEAST ANALYTICAL \_\_\_\\_\\\\_\_\\\\_\_\

**TIME: 1130** 



2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV641-22

**NEA ID:** 

AE02815

**MATRIX:** 

FISH

**DATE SAMPLED: 04/26/2001** 

TIME: N/A

DATE RECEIVED:

04/28/2001

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor						—
Aroclor 1016	ND	0 109	μg/g	5/12/01		
Aroclor 1221	ND	0 109	μg/g	5/12/01		
Octor 1232	ND	0 109	μg/g	5/12/01		
Coclor 1242	0 387	0 109	μg/g	5/12/01	PD	
Aroclor 1248	ND	0 109	μg/g	5/12/01		
Aroclor 1254	3 09	0 109	μg/g	5/12/01		
Aroclor 1260	0 561	0 109	μg/g	5/12/01		
Total PCB Amount > Reporting Li	mıt 4 04 μg	/g				

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

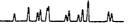
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHE E. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-23

NEA ID:

AE02816

**MATRIX:** 

FISH

**DATE SAMPLED: 04/26/2001** 

04/28/2001

TIME: 1130 PROJECT:

**FISH STUDY** 

SAMPLED BY:

DATE RECEIVED:

J ORR

LOCATION:

CLEMSON SC

TIME: N/A

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

0001011221101 1111		2.12	0111	11070		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	ınated Biphenyls					
Aroclor 1016	ND	0 0516	μg/g	5/12/01		
Aroclor 1221	ND	0 0516	μg/g	5/12/01		
clor 1232	ND	0 0516	μg/g	5/12/01		
1 oclor 1242	ND	0 0516	μg/g	5/12/01		
Aroclor 1248	ND	0 0516	μg/g	5/12/01		
Aroclor 1254	0 0763	0 0516	μg/g	5/12/01		
Aroclor 1260	ND	0 0516	μg/g	5/12/01		

Total PCB Amount > Reporting Limit

0 0763 μg/g

Note There were few non-target peaks

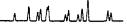
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Robert E. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-24

NEA ID:

AE02817

MATRIX:

FISH

**DATE SAMPLED: 04/26/2001** 

TIME: N/A

DATE RECEIVED:

04/28/2001

**TIME:** 11.30 **PRO**.

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

			···•		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls		-		
Aroclor 1016	ND	0 0522	μg/g	5/12/01	
Aroclor 1221	ND	0 0522	μg/g	5/12/01	
Toclor 1232	ND	0 0522	μg/g	5/12/01	
oclor 1242	ND	0 0522	μg/g	5/12/01	
Aroclor 1248	ND	0 0522	μg/g	5/12/01	
Aroclor 1254	ND	0 0522	μg/g	5/12/01	
Aroclor 1260	ND	0 0522	μg/g	5/12/01	

Total PCB Amount > Reporting Limit

0 00

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

RHD I. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV641-25

**NEA ID:** 

AE02818

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/26/2001

TIME: N/A

DATE RECEIVED:

04/28/2001

TIME: 1130

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polyc	chlorinated Biphenyls				· · · · · ·
Aroclor 1016	ND	0 0514	μg/g	5/12/01	
Aroclor 1221	ND	0 0514	μg/g	5/12/01	
Clor 1232	ND	0.0514	μg/g	5/12/01	
oclor 1242	ND	0 0514	μg/g	5/12/01	
Aroclor 1248	ND	0 0514	μg/g	5/12/01	
Aroclor 1254	ND	0 0514	μg/g	5/12/01	
Aroclor 1260	ND	0 0514	μg/g	5/12/01	

Total PCB Amount > Reporting Limit

0.00

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RAD E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV641-26

NEA ID:

AE02898

MATRIX:

FISH

**DATE SAMPLED: 04/27/2001** 

1100000

WIAIKJA

05/01/2001

TIME: 10 00 PRO

PROJECT:

**FISH STUDY** 

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS **PQL** UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 107 5/14/01 μg/g Aroclor 1221 ND 0 107 5/14/01 μg/g clor 1232 ND 0 107 5/14/01 μg/g clor 1242 0414 0.107 5/14/01 PD μg/g ND Aroclor 1248 0 107 5/14/01 μg/g 236 Aroclor 1254 0 107 5/14/01 μg/g Aroclor 1260 0 327 0 107 5/14/01 μg/g Total PCB Amount > Reporting Limit 3 10 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE.

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

Rober I. Wogn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

CONTACT: JIM ORR

**CUSTOMER ID:** 

DATE RECEIVED:

SV641-27

**NEA ID:** 

AE02834

**MATRIX:** 

FISH

**DATE SAMPLED: 04/25/2001** 

PROJECT:

**FISH STUDY** 

SAMPLED BY:

04/27/2001

**TIME: 1030** 

**CLEMSON SC** 

J ORR

N/A

LOCATION: LAB ELAP #:

UNITS

11078

**CUSTOMER PO:** PARAMETER PERFORMED

RESULTS

POL

DATE TESTED

**FLAGS** 

TIME: N/A

SW-846 Method 8082,	Polychlorinated Biphenyls
---------------------	---------------------------

,				
Aroclor 1016	ND	0 0551	μg/g	5/13/01
Aroclor 1221	ND	0 0551	μg/g	5/13/01
clor 1232	ND	0 0551	μg/g	5/13/01
Sclor 1242	ND	0 0551	μg/g	5/13/01
Aroclor 1248	ND	0 0551	μg/g	5/13/01
Aroclor 1254	0 313	0 0551	μg/g	5/13/01
Aroclor 1260	0 0573	0 0551	μg/g	5/13/01

Total PCB Amount > Reporting Limit

0 3 7 0

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rho I. Wogn

## **NORTHEAST ANALYTICAL** A MAN AMALA



2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/04/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-01

NEA ID:

AE02503

**MATRIX:** 

FISH

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

TIME: 10:30

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	inated Biphenyls					
Aroclor 1016	ND	0 0541	μg/g	5/2/01		
Aroclor 1221	ND	0 0541	μg/g	5/2/01		
pelor 1232	ND	0.0541	μg/g	5/2/01		
Gelor 1242	ND	0 0541	μg/g	5/2/01		
Aroclor 1248	ND	0 0541	μg/g	5/2/01		
Aroclor 1254	0 496	0 0541	μg/g	5/2/01		
Aroclor 1260	0 162	0 0541	μg/g	5/2/01		

Total PCB Amount > Reporting Limit

0.658 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

Rober I. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**CUSTOMER ID:** 

SV642-02

NEA ID:

AE02504

MATRIX:

FISH

**DATE SAMPLED:** 04/20/2001

TIME: N/A

DATE RECEIVED:

04/24/2001

TIME: 10 30 PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls		<del></del>		
Aroclor 1016	ND	0 0552	μg/g	5/3/01	
Aroclor 1221	ND	0.0552	μg/g	5/3/01	
clor 1232	ND	0 0552	μg/g	5/3/01	
clor 1242	ND	0 0552	μg/g	5/3/01	
Aroclor 1248	ND	0 0552	μg/g	5/3/01	
Aroclor 1254	ND	0 0552	μg/g	5/3/01	
Aroclor 1260	ND	0 0552	μg/g	5/3/01	

Note There were few non-target peaks

Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

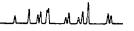
Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rober I. Worm

0.00

μg/g



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

**CUSTOMER ID:** 

SV642-03

NEA ID:

AE02505

**MATRIX:** 

FISH

**DATE SAMPLED: 04/20/2001** 

. ........

TIME: N/A

DATE RECEIVED:

04/24/2001

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

COSTOLIZACIO: IIII					
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 0534	μg/g	5/3/01	
Aroclor 1221	ND	0 0534	μg/g	5/3/01	
pelor 1232	ND	0 0534	μg/g	5/3/01	
oclor 1242	ND	0 0534	μg/g	5/3/01	
Aroclor 1248	ND	0 0534	μg/g	5/3/01	
Aroclor 1254	0 126	0 0534	μg/g	5/3/01	
Aroclor 1260	0 0918	0 0534	μg/g	5/3/01	

Total PCB Amount > Reporting Limit

0 218 μg/g

TIME: 1030

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

Rober E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

**DATE RECEIVED:** 

SV642-04

**NEA ID:** 

AE02506

**MATRIX:** 

FISH

**DATE SAMPLED: 04/20/2001** 

**TIME: 1030** 

PROJECT:

**FISH STUDY** 

TIME: N/A

SAMPLED BY:

04/24/2001 J ORR

LOCATION:

**CLEMSON SC** 

11078

**CUSTOMER PO:** N/A LAB ELAP #: PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls ND 0 0528 5/3/01 Aroclor 1016 μg/g ND 0 0528 Aroclor 1221 5/3/01 μg/g ND oclor 1232 0 0528 5/3/01 μg/g clor 1242 ND 0.0528 5/3/01 μg/g ND 0 0528 Aroclor 1248 5/3/01 μg/g 0 0722 Aroclor 1254 0.0528 5/3/01 μg/g Aroclor 1260 0 0566 0 0528 5/3/01 μg/g

Total PCB Amount > Reporting Limit

0 129

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

RAD E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/04/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-05

**NEA ID:** 

AE02507

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/20/2001** 

**FISH STUDY** 

DATE RECEIVED:

04/24/2001

**TIME: 1030** PROJECT:

RESULTS

LOCATION:

**CLEMSON SC** 

SAMPLED BY: **CUSTOMER PO:**  J ORR

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED

POL

UNITS

DATE TESTED

**FLAGS** 

TIME: N/A

SW-846 Method 8082, Pol	ychlorinated Biphenyls			•	
Aroclor 1016	ND	0 0549	μg/g	5/3/01	
Aroclor 1221	ND	0.0549	μg/g	5/3/01	
Clor 1232	ND	0 0549	μg/g	5/3/01	
Clor 1232 Clor 1242	ND	0 0549	μg/g	5/3/01	
Aroclor 1248	ND	0 0549	μg/g	5/3/01	
Aroclor 1254	0 076	0 0549	μg/g	5/3/01	
Aroclor 1260	ND	0 0549	μ <u>g</u> /g	5/3/01	

Total PCB Amount > Reporting Limit

0 0760 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

RAD I. Worm



2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228

BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV6**42**-06

NEA ID:

AE02473

MATRIX:

FISH

DATE

**DATE SAMPLED:** 04/19/2001

TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 8 00

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	unated Biphenyls					
Aroclor 1016	ND	0 0537	μg/g	5/1/01		
Aroclor 1221	ND	0 0537	μg/g	5/1/01		
pclor 1232	ND	0 0537	μg/g	5/1/01		
oclor 1242	ND	0 0537	μg/g	5/1/01		
Aroclor 1248	ND	0 0537	μg/g	5/1/01		
Aroclor 1254	0 101	0 0537	μg/g	5/1/01		
Aroclor 1260	ND	0 0537	μg/g	5/1/01		

Total PCB Amount > Reporting Limit

0 101 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

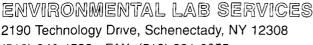
PQL (Practical Quantitation Lumit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Robert E. Wogn



(518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV642-07

NEA ID:

AE02509

**MATRIX:** 

FISH

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

TIME: 10 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

0001011211101					
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 0537	μg/g	5/3/01	
Aroclor 1221	ND	0 0537	μg/g	5/3/01	
pelor 1232	ND	0 0537	μg/g	5/3/01	
oclor 1242	ND	0 0537	μg/g	5/3/01	
Aroclor 1248	ND	0 0537	μg/g	5/3/01	
Aroclor 1254	ND	0 0537	μg/g	5/3/01	
Aroclor 1260	ND	0.0537	μg/g	5/3/01	

Total PCB Amount > Reporting Limit

0.00

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robert E. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-08

**NEA ID:** 

AE02510

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/20/2001

TIME: N/A

DATE RECEIVED:

04/24/2001

**TIME:** 10 30

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls			<u>-</u>	
Aroclor 1016	ND	0 0547	μg/g	5/3/01	
Aroclor 1221	ND	0 0547	μg/g	5/3/01	
Coclor 1232	ND	0 0547	μg/g	5/3/01	
oclor 1242	ND	0 0547	μg/g	5/3/01	
Aroclor 1248	ND	0 0547	μg/g	5/3/01	
Aroclor 1254	ND	0 0547	μg/g	5/3/01	
Aroclor 1260	ND	0 0547	μg/g	5/3/01	
Total PCB Amount > Reporting Li	mıt 0 00 µg	g/g			

Note There were few non-target peaks

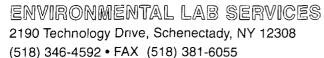
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Robert E. Wogn



CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-09

NEA ID:

AE02511

**MATRIX:** 

FISH

DATE SAMPLED: 04/20/2001

TIME: N/A

DATE RECEIVED:

04/24/2001

TIME: 10 30 PR

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

COSTOMERTO. IVA		EAD ELAI #. 110/8				
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	inated Biphenyls					
Aroclor 1016	ND	0 0543	μg/g	5/3/01		
Aroclor 1221	ND	0 0543	μg/g	5/3/01		
Clor 1232	ND	0 0543	μg/g	5/3/01		
Jolor 1242	ND	0 0543	μg/g	5/3/01		
Aroclor 1248	ND	0 0543	μg/g	5/3/01		
Aroclor 1254	0 0986	0 0543	μg/g	5/3/01		
Aroclor 1260	0 0679	0 0543	μg/g	5/3/01		
m . Indn n I	0.167					

Total PCB Amount > Reporting Limit

0 167 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD E. Wogn

## NORTHEAST ANALYTICAL M MAR MALL



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/04/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV642-10

**NEA ID:** 

AE02512

**MATRIX:** 

FISH

**DATE SAMPLED: 04/20/2001** 

DATE RECEIVED:

04/24/2001

TIME: 1030 PROJECT: **FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

TIME: N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

COSTOMERTO: 1071		DATE L	J2 LE 17 .	11070		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorinat	ted Biphenyls	<u> </u>	··-	<del></del>		
Aroclor 1016	ND	0 0530	μg/g	5/3/01		
Aroclor 1221	ND	0 0530	μg/g	5/3/01		
clor 1232	ND	0 0530	μg/g	5/3/01		
Clor 1242	ND	0 0530	μg/g	5/3/01		
Aroclor 1248	ND	0 0530	μg/g	5/3/01		
Aroclor 1254	ND	0 0530	μg/g	5/3/01		
Aroclor 1260	ND	0 0530	μg/g	5/3/01		
Total PCB Amount > Reporting Limit	0 00 д	g/g				

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RAD I. Wogn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

SV642-10 DUP

NEA ID:

AE02523

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/20/2001

TIME: N/A

DATE RECEIVED:

04/24/2001

TIME: 10 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls

· · · · · · · · · · · · · · · · · · ·	·			
Aroclor 1016	ND	0 0540	μg/g	5/3/01
Aroclor 1221	ND	0 0540	μg/g	5/3/01
oclor 1232	ND	0 0540	μg/g	5/3/01
oclor 1232 oclor 1242	ND	0 0540	μg/g	5/3/01
Aroclor 1248	ND	0 0540	μg/g	5/3/01
Aroclor 1254	ND	0 0540	μg/g	5/3/01
Aroclor 1260	ND	0 0540	μg/g	5/3/01

Total PCB Amount > Reporting Limit

0.00

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

Rober E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

**CUSTOMER ID:** 

SV642-11

NEA ID:

AE02513

MATRIX:

FISH

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

**TIME:** 10 30

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP#:

11078

CUSTOMERTO. NA					
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 0554	μg/g	5/3/01	
Aroclor 1221	ND	0 0554	μg/g	5/3/01	
oclor 1232	ND	0 0554	μg/g	5/3/01	
oclor 1242	ND	0 0554	μg/g	5/3/01	
Aroclor 1248	ND	0 0554	μg/g	5/3/01	
Aroclor 1254	ND	0 0554	μg/g	5/3/01	
Aroclor 1260	ND	0 0554	μg/g	5/3/01	

Total PCB Amount > Reporting Lunit

0.00

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robert E. Wogm

## NORTHEAST ANALYTICAL M MM MM



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/04/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228** BRENTWOOD, TN 37027

CONTACT: JIM ORR

**CUSTOMER ID:** 

SV642-12

**NEA ID:** 

AE02514

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

**TIME: 1030** PROJECT: **FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0551 μg/g 5/3/01 Aroclor 1221 ND 0.0551 5/3/01 μg/g clor 1232 ND 0 0551 5/3/01 μg/g clor 1242 ND 0.0551 5/3/01 μg/g Aroclor 1248 ND 0.0551 5/3/01 μg/g Aroclor 1254 0 0847 0.0551 5/3/01 μg/g Aroclor 1260 ND 0 0551 5/3/01 μg/g

Total PCB Amount > Reporting Limit

0 0847 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

Robert E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/04/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-13

NEA ID:

AE02515

**MATRIX:** 

FISH

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

TIME: 1030

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED POL RESULTS UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0536 5/3/01  $\mu g/g$ Aroclor 1221 ND 0.0536 μg/g 5/3/01 clor 1232 ND 0.0536 5/3/01 μg/g clor 1242 ND 0 0536 5/3/01 μg/g ND Aroclor 1248 0 0536 5/3/01 μg/g Aroclor 1254 0.791 0 0536 μg/g 5/3/01 Aroclor 1260 0 137 0.0536 5/3/01 μg/g

Total PCB Amount > Reporting Limit

0 928

μg/g

Note There were few non-target peaks

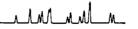
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

Rober E. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/04/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-14

NEA ID:

AE02516

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/20/2001

TIME: N/A

DATE RECEIVED:

04/24/2001

**TIME:** 10 30

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 5/3/01 0 0536 μg/g Aroclor 1221 ND 0 0536 μg/g 5/3/01 oclor 1232 ND 0 0536 5/3/01 μg/g sclor 1242 ND 0 0536 5/3/01 μg/g Aroclor 1248 ND 0 0536 5/3/01  $\mu g/g$ 0 385 Aroclor 1254 0 0536 μg/g 5/3/01 Aroclor 1260 0.0613 0 0536 5/3/01 μg/g

Total PCB Amount > Reporting Limit

0 446 μg/g

Note There were few non-target peaks

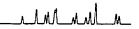
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robb E. Wogn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 09/06/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-15

NEA ID:

AE02496

MATRIX:

FISH

**DATE SAMPLED:** 04/20/2001

TIME: N/A

DATE RECEIVED:

04/24/2001

**TIME:** 10 30

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.0542 5/2/01 μg/g Aroclor 1221 ND 0 0542 μg/g 5/2/01 clor 1232 ND 0 0542 5/2/01 μg/g clor 1242 0 0624 0 0542 5/2/01 PD μg/g ND Aroclor 1248 0 0542 μg/g 5/2/01 Aroclor 1254 0 0542 5/2/01 0.820 μg/g Aroclor 1260 0 108 0 0542 5/2/01 μg/g Total PCB Amount > Reporting Limit 0 990 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were several non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

hert E Wagner, Laboratory Director

Rober E. Wogn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 09/06/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-16

NEA ID:

AE02497

**MATRIX:** 

FISH

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

**TIME: 1030** 

PROJECT:

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorinate	ed Biphenyls					
Aroclor 1016	ND	0 219	μg/g	5/2/01		
Aroclor 1221	ND	0 219	μg/g	5/2/01		
1 velor 1232	ND	0 219	μg/g	5/2/01		
oclor 1242	0 541	0 219	μg/g	5/2/01	PD	
Aroclor 1248	ND	0 219	μg/g	5/2/01		
Aroclor 1254	3 41	0 219	μg/g	5/2/01		
Aroclor 1260	0 525	0 219	μg/g	5/2/01		
Total PCB Amount > Reporting Limit	4 48	μg/g				

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

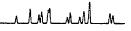
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

bert E Wagner, Laboratory Director

RHD I. Wogn



•

ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

# CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

**CUSTOMER ID:** 

DATE RECEIVED:

SV642-17

NEA ID:

AE02498

MATRIX:

FISH

**DATE SAMPLED: 04/20/2001** 

102170

MATICIA.

04/24/2001

**TIME:** 10 30

PROJECT:

FISH STUDY

TIME: N/A

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 314	μg/g	5/2/01.	
Aroclor 1221	ND	0 314	μg/g	5/2/01	
oclor 1232	ND	0 314	μg/g	5/2/01	
oclor 1242	0 896	0 314	μg/g	5/2/01	PD
Aroclor 1248	ND	0 314	μg/g	5/2/01	
Aroclor 1254	5 32	0 314	μg/g	5/2/01	
Aroclor 1260	0 776	0 314	µg/g	5/2/01	
Total PCB Amount > Reporting Li	mit 6.00 un	1/0			

Total PCB Amount > Reporting Limit 6 99  $\mu g/g$ 

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

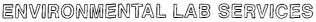
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RAD E. Wogn



2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/04/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-17 DUP

NEA ID:

AE02521

**MATRIX:** 

FISH

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

**TIME:** 10 30

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS **PQL** DATE TESTED UNITS **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 5/3/01 Aroclor 1016 ND 0.317 μg/g Aroclor 1221 ND 5/3/01 0317 μg/g oclor 1232 ND 0.317 5/3/01 μg/g Loclor 1242 0.885 0317 5/3/01 PD μg/g Aroclor 1248 ND 0317 5/3/01 μg/g 5 52 Aroclor 1254 0317 5/3/01 μg/g Aroclor 1260 0.801 0317 5/3/01 μg/g

Total PCB Amount > Reporting Limit

7 2 1 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Robb E. Wogn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-18

NEA ID:

AE02499

MATRIX:

FISH

**DATE SAMPLED:** 04/20/2001

TIME: N/A

DATE RECEIVED:

04/24/2001

**TIME: 1030** 

**PROJECT:** 

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0517 5/2/01 μg/g Aroclor 1221 ND 0 0517 μg/g 5/2/01 ND clor 1232 0 0517 5/2/01 μg/g 0 101 clor 1242 0 0517 5/2/01 PD μg/g ND Aroclor 1248 0 0517 5/2/01 μg/g Aroclor 1254 1 12 0 0517 5/2/01 μg/g Aroclor 1260 0 148 0.0517 5/2/01 μg/g

Total PCB Amount > Reporting Limit

1 37

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rht I. Wom



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/04/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-19

NEA ID:

AE02500

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

**TIME: 1030** 

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO:

 $NI/\Delta$ 

LAB ELAP #:

11078

COSTOMERTO: N/A LABELAT #. 110/8					
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	ınated Biphenyls		* - *		
Aroclor 1016	ND	0 0524	μg/g	5/2/01	
Aroclor 1221	ND	0 0524	μg/g	5/2/01	
oclor 1232	ND	0 0524	- μg/g	-5/2/01	
oclor 1242	ND	0 0524	μg/g	5/2/01	
Aroclor 1248	ND	0 0524	μg/g	5/2/01	
Aroclor 1254	0 480	0 0524	μg/g	5/2/01	
Aroclor 1260	0 0632	0 0524	μg/g	5/2/01	

Total PCB Amount > Reporting Limit

0 543

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

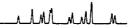
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE.

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robert E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV642-20

NEA ID:

AE02501

**MATRIX:** 

FISH

**DATE SAMPLED:** 04/20/2001

0/2001 **TIME:** N/A

DATE RECEIVED:

04/24/2001

**TIME:** 10 30 P.

**PROJECT:** 

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

CODI ONIDICI O. 1071		END ELAI II.				
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE 1 ESTED	FLAGS	
SW-846 Method 8082, Polychlor	rinated Biphenyls	·				
Aroclor 1016	ND	0 0549	μg/g	5/2/01		
Aroclor 1221	ND	0 0549	μg/g	5/2/01		
Clor 1232	ND	0 0549	μg/g	5/2/01		
Loclor 1242	ND	0 0549	μg/g	5/2/01		
Aroclor 1248	ND	0 0549	μg/g	5/2/01		
Aroclor 1254	0 0764	0 0549	μg/g	5/2/01		
Aroclor 1260	ND	0 0549	μg/g	5/2/01		

Total PCB Amount > Reporting Limit

0 0764 μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

RHD E. Wogm



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/04/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV642-20 DUP

NEA ID:

AE02522

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/20/2001** 

DATE RECEIVED:

04/24/2001

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

TIME: N/A

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polycl	nlorinated Biphenyls					
Aroclor 1016	ND	0.0539	μg/g	5/3/01		
Aroclor 1221	ND	0 0539	μg/g	5/3/01		
oclor 1232	ND	0 0539	μg/g	5/3/01		
Loclor 1242	ND	0 0539	μg/g	5/3/01		
Aroclor 1248	ND	0 0539	μg/g	5/3/01		
Aroclor 1254	0 0712	0 0539	μg/g	5/3/01		
Aroclor 1260	ND	0 0539	μg/g	5/3/01		

Total PCB Amount > Reporting Limit

 $0.0712 \, \mu g/g$ 

**TUME:** 10 30

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL POL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rober I. Wogn

**TIME:** 10 30



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/04/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-21

NEA JD:

AE02502

**MATRIX:** 

**FISH** 

J ORR

**DATE SAMPLED: 04/20/2001** 

04/24/2001

PROJECT:

FISH STUDY

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

LOCATION:

**CLEMSON SC** 

CUSTOMER PO: N/A		LAB ELAP #:			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				<del></del>
Aroclor 1016	ND	0 0538	μg/g	5/2/01	
Aroclor 1221	ND	0 0538	μg/g	5/2/01	
Clor 1232	ND	0 0538	μg/g	5/2/01	
Coclor 1242	ND	0 0538	μg/g	5/2/01	
Aroclor 1248	ND	0 0538	μg/g	5/2/01	
Aroclor 1254	0 124	0 0538	μg/g	5/2/01	
Aroclor 1260	ND	0 0538	μg/g	5/2/01	

Total PCB Amount > Reporting Limit

0 124

μg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

RAD E. Wogm



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV642-22

**NEA ID:** AE02823

MATRIX: FISH DATE SAMPLED: 04/25/2001 TIME: N/A

**DATE RECEIVED:** 04/27/2001 **TIME:** 10 30

**PROJECT:** FISH STUDY

SAMPLED BY: J ORR LOCATION: CLEMSON SC

CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 0.101 5/13/01 ND μg/g Aroclor 1221 ND 0 101 μg/g 5/13/01 oclor 1232 ND 0 101 5/13/01 μg/g oclor 1242 0.451 0 101 5/13/01 PD μg/g Aroclor 1248 ND 0 101 μg/g 5/13/01 Aroclor 1254 0 101 2 82 μg/g 5/13/01 0 478 0 101 Aroclor 1260 5/13/01 μg/g

Total PCB Amount > Reporting Limit 3 75 μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robert E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

**CUSTOMER ID:** 

SV642-23

NEA ID:

AE02824

**MATRIX:** 

FISH

**DATE SAMPLED: 04/25/2001** 

TIME: N/A

DATE RECEIVED:

04/27/2001

**TIME:** 10 30 PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

		2.10 2.	31 22	110,0		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorinate	ed Biphenyls					
Aroclor 1016	ND	0 0525	μg/g	5/13/01		
Aroclor 1221	ND	0 0525	μg/g	5/13/01		
oclor 1232	ND	0.0525	μg/g	5/13/01		
ioclor 1242	0 114	0.0525	μg/g	5/13/01	PD	
Aroclor 1248	ND	0 0525	μg/g	5/13/01		
Aroclor 1254	1 03	0 0525	μg/g	5/13/01		
Aroclor 1260	0 132	0 0525	μg/g	5/13/01		
Total PCB Amount > Reporting Limit	1 28	ug/g				

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

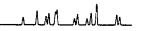
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robert E. Wogn





ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

## **CERTIFICATE OF ANALYSIS** 05/16/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

SV642-24

**NEA ID:** 

AE02825

**MATRIX:** 

**FISH** 

**DATE SAMPLED: 04/25/2001** 

TIME: N/A

DATE RECEIVED:

04/27/2001

**TIME:** 10 30

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychio	rinated Biphenyls					
Aroclor 1016	ND	0 106	μg/g	5/13/01		
Aroclor 1221	ND	0 106	μg/g	5/13/01		
Clor 1232	ND	0 106	μg/g	5/13/01		
Octor 1242	0 477	0 106	μg/g	5/13/01	PD	
Aroclor 1248	ND	0 106	μg/g	5/13/01		
Aroclor 1254	3 05	0 106	μg/g	5/13/01		
Aroclor 1260	0 617	0 106	μg/g	5/13/01		

Total PCB Amount > Reporting Limit

μg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD E. Wogn

Appendix D Data Quality





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/14/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

RB-8

NEA ID:

AE02902

MATRIX:

WATER

**DATE SAMPLED: 04/30/2001** 

TIME: N/A

DATE RECEIVED:

05/01/2001

TIME: 10.00 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED .	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlo	orinated Biphenyls				-	
Aroclor 1016	ND	0 0510	μg/L	5/11/01		
Aroclor 1221	ND	0 0510	μg/L	5/11/01		
Pelor 1232	ND	0 0510	μg/L	5/11/01		
Loclor 1242	ND	0 0510	μg/L	5/11/01		
Aroclor 1248	ND	0 0510	μg/L	5/11/01		
Aroclor 1254	ND	0 0510	μg/L	5/11/01		
Aroclor 1260	ND	0 0510	μg/L	5/11/01		

Total PCB Amount > Reporting Limit

0 00

μg/L

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

RAD E. Wogn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/14/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

**CUSTOMER ID:** 

TB-8

NEA ID:

AE02903

**MATRIX:** 

WATER

**DATE SAMPLED: 04/30/2001** 

TIME: N/A

DATE RECEIVED:

05/01/2001

TIME: 10 00 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS **PQL** UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0633 5/11/01 μg/L Aroclor 1221 ND 0.0633 5/11/01 μg/L oclor 1232 ND 0.0633 5/11/01 μg/L oclor 1242 ND 0 0633 µg/L 5/11/01 ND 0 0633 5/11/01 Aroclor 1248 μg/L ND 5/11/01 Aroclor 1254 0 0633 μg/L Aroclor 1260 ND 0 0633 5/11/01 μg/L

Total PCB Amount > Reporting Limit

0.00

μg/L

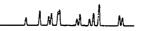
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robert E. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/14/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

RB-7

NEA ID:

AE02819

**MATRIX:** 

WATER

**DATE SAMPLED:** 04/26/2001

0.1061000

TIME: N/A

DATE RECEIVED:

04/28/2001

**TIME:** 1130

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

COSTOMERTO: IVA		EABELAI #. 110/6			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls			· · · · · · · · · · · · · · · · · · ·	
Aroclor 1016	ND	0 0532	μg/L	5/11/01	
Aroclor 1221	ND	0 0532	μg/L	5/11/01	
oclor 1232	ND	0 0532	μg/L	5/11/01	
oclor 1242	ND	0 0532	μg/L	5/11/01	
Aroclor 1248	ND	0 0532	μg/L	5/11/01	
Aroclor 1254	ND	0.0532	μg/L	5/11/01	
Aroclor 1260	ND	0 0532	μg/L	5/11/01	

Total PCB Amount > Reporting Limit

0 00

μg/L

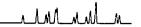
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Rober E. Wagn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/14/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

**TB-7** 

**NEA ID:** 

AE02820

MATRIX:

WATER

**TIME:** 11 30

**DATE SAMPLED: 04/26/2001** 

PROJECT:

**FISH STUDY** 

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

04/28/2001 J. ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO: N/A		LAB ELAP #:		11078	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 0521	μg/L	5/11/01	
Aroclor 1221	ND	0 0521	μg/L	5/11/01	
11 clor 1232	ND	0 0521	μg/L	5/11/01	
Apoclor 1242	ND	0 0521	μg/L	5/11/01	
Aroclor 1248	ND	0 0521	μg/L	5/11/01	
Aroclor 1254	ND	0 0521	μg/L	5/11/01	
Aroclor 1260	ND	0 0521	μg/L	5/11/01	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc.

bert E Wagner, Laboratory Director

Ritt I. Wogm

0.00

μg/L





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/09/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

**TB-6** 

NEA ID:

AE02832

**MATRIX:** 

WATER

**DATE SAMPLED:** 04/25/2001

TIME: N/A

DATE RECEIVED:

04/27/2001

TIME: 10 30 PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

CUSTOMER PO: N/A		LAB ELAP #:			
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rınated Bıphenyls		-		
Aroclor 1016	ND	0 0500	μg/L	5/5/01	
Aroclor 1221	ND	0 0500	μg/L	5/5/01	
Clor 1232	ND	0 0500	μg/L	5/5/01	
Octor 1242	ND	0 0500	μg/L	5/5/01	
Aroclor 1248	ND	0 0500	μg/L	5/5/01	
Aroclor 1254	ND	0 0500	μg/L	5/5/01	
Aroclor 1260	ND	0 0500	μg/L	5/5/01	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Total PCB Amount > Reporting Limit

Rober I. Wogn

0.00

μg/L



(518) 346-4592 • FAX (518) 381-6055

# CERTIFICATE OF ANALYSIS 05/09/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

RB-6

NEA ID:

AE02833

MATRIX:

WATER

**DATE SAMPLED: 04/25/2001** 

TIME: N/A

DATE RECEIVED:

04/27/2001

TIME: 10 30 F

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlo	rınated Bıphenyls				· · · · · · · · · · · · · · · · · · ·	_
Aroclor 1016	ND	0 0500	μg/L	5/5/01		
Aroclor 1221	ND	0.0500	μg/L	5/5/01		
Clor 1232	ND	0 0500	μg/L	5/5/01		
clor 1242	ND	0 0500	μg/L	5/5/01		
Aroclor 1248	ND	0 0500	μg/L	5/5/01		
Aroclor 1254	ND	0 0500	μg/L	5/5/01		
Aroclor 1260	ND	0 0500	$\mu$ g/L	5/5/01		

Total PCB Amount > Reporting Limit

0.00

μg/L

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Robert E. Wagn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

RB-5

NEA ID:

AE02519

**MATRIX:** 

WATER

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

TIME: 10 30

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

COSTOMERTO. N/A					
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls		· ·	·	
Aroclor 1016	ND	0 0500	μg/L	5/1/01	
Aroclor 1221	ND	0 0500	μg/L	5/1/01	
octor 1232	ND	0 0500	μg/L	5/1/01	
oclor 1242	ND	0 0500	μg/L	5/1/01	
Aroclor 1248	ND	0 0500	μg/L	5/1/01	
Aroclor 1254	ND	0 0500	μg/L	5/1/01	
Aroclor 1260	ND	0 0500	μg/L	5/1/01	

Total PCB Amount > Reporting Limit

0 00

μg/L

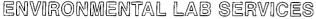
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RAD I. Wogn



2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

# CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

TB-5

NEA ID:

AE02520

MATRIX:

WATER

**DATE SAMPLED: 04/20/2001** 

TIME: N/A

DATE RECEIVED:

04/24/2001

**TIME:** 10 30

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

COSTONERTO. IVA		LADE	urai #.	11070		
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	rinated Biphenyls					
Aroclor 1016	ND	0 0500	μg/L	5/1/01		
Aroclor 1221	ND	0 0500	μg/L	5/1/01		
oclor 1232	ND	0 0500	μg/L	5/1/01		
oclor 1242	ND	0 0500	μg/L	5/1/01		
Aroclor 1248	ND	0 0500	μg/L	5/1/01		
Aroclor 1254	ND	0 0500	μg/L	5/1/01		
Aroclor 1260	ND	0 0500	μg/L	5/1/01		

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

Robert E. Wagn

0.00

μg/L



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

**CUSTOMER ID:** 

RINSE BLK-04

NEA ID:

AE02479

**MATRIX**:

WATER

**DATE SAMPLED: 04/19/2001** 

TIME: N/A

DATE RECEIVED:

04/23/2001

TIME: 8 00

PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

COSTONIER TO. IVA		LADEI	JAI #:	11078	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinate	ed Biphenyl	s			
Aroclor 1016	ND	0 0500	μg/L	5/1/01	
Aroclor 1221	ND	0 0500	μg/L	5/1/01	
pelor 1232	ND	0 0500	μg/L	5/1/01	
Aroclor 1242	ND	0 0500	μg/L	5/1/01	
Aroclor 1248	ND	0 0500	μg/L	5/1/01	
Aroclor 1254	ND	0 0500	μg/L	5/1/01	
Aroclor 1260	ND	0.0500	μg/L	5/1/01	
Total PCB Amount > Reporting Limit	0	μg/L			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

Rober I. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

**CUSTOMER ID:** 

TRIP BLK-04

NEA ID:

AE02480

**MATRIX:** 

**DATE SAMPLED:** 04/19/2001

TIME: N/A

WATER 04/23/2001

TIME: 800

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

DATE RECEIVED:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 0500 μg/L 5/1/01 Aroclor 1221 ND 0 0500 μg/L 5/1/01 oclor 1232 ND 0 0500 5/1/01 μg/L oclor 1242 ND 0 0500 5/1/01 μg/L Aroclor 1248 ND 0 0500 μg/L 5/1/01 Aroclor 1254 0.0500 5/1/01 ND μg/L ND 5/1/01 Aroclor 1260 0 0500 μg/L

Total PCB Amount > Reporting Limit

μg/L

0

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

Robb E. Wogn

#### NORTHEAST ANALYTICAL MAN ANLA



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

## CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** 

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

RINSE BLANK-3

NEA ID:

AE02441

**MATRIX:** 

WATER

**DATE SAMPLED: 04/18/2001** 

DATE RECEIVED:

04/20/2001

**TIME: 1030** 

PROJECT:

FISH STUDY

SAMPLED BY:

J ORR

LOCATION:

**CLEMSON SC** 

TIME: N/A

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 0500	μg/L	5/1/01	
Aroclor 1221	ND	0 0500	μg/L	5/1/01	
clor 1232	ND	0 0500	μg/L	5/1/01	
clor 1242	ND	0 0500	μg/L	5/1/01	
Aroclor 1248	ND	0 0500	μg/L	5/1/01	
Aroclor 1254	ND	0 0500	μg/L	5/1/01	
Aroclor 1260	ND	0 0500	μg/L	5/1/01	

Total PCB Amount > Reporting Limit

μg/L

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

Robert E. Wogn



A

ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

**CUSTOMER ID:** 

TRIP BLANK-3

NEA ID:

AE02442

MATRIX:

WATER

**DATE SAMPLED: 04/18/2001** 

04/20/2001

TIME: 10 30 PROJECT:

FISH STUDY

SAMPLED BY:

DATE RECEIVED:

J ORR

LOCATION:

**CLEMSON SC** 

TIME: N/A

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				· · · · · · · · · · · · · · · · · · ·
Aroclor 1016	ND	0 0500	μg/L	5/1/01	
Aroclor 1221	ND	0.0500	μg/L	5/1/01	
Clor 1232	ND	0 0500	μg/L	5/1/01	
Socior 1242	ND	0 0500	μg/L	5/1/01	
Aroclor 1248	ND	0 0500	μg/L	5/1/01	
Aroclor 1254	ND	0 0500	μg/L	5/1/01	
Aroclor 1260	ND	0 0500	μg/L	5/1/01	

Total PCB Amount > Reporting Limit

μg/L

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

Robert E. Wogn



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 04/27/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD.

**SUITE 228** 

BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

DATE RECEIVED:

RINSE BLK-1

NEA ID:

AE02334

MATRIX:

WATER

**DATE SAMPLED: 04/17/2001** 

Aroclor 1254

Aroclor 1260

04/19/2001

PROJECT:

**PQL** 

FISH STUDY

TIME: N/A

**FLAGS** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

PARAMETER PERFORMED

N/A

LAB ELAP #:

11078

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016 ND

Aroclor 1221 ND

Aroclor 1221 ND

clor 1232 ND

clor 1242 ND

Aroclor 1248 ND

ND ND ND 0 0500 0 0500 0 0500

0 0500

0 0500

0 0500

0 0500

μg/L μg/L μg/L

μg/L

μg/L

μg/L

μg/L

UNITS

4/25/01 4/25/01 4/25/01

4/25/01

DATE TESTED

4/25/01 4/25/01 4/25/01

Total PCB Amount > Reporting Limit

0

TIME: 11 00

**RESULTS** 

μg/L

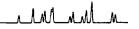
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RAD I. Wogin



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 04/27/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

**RINSE BLK-2** 

NEA ID:

AE02336

**MATRIX:** 

WATER

**DATE SAMPLED: 04/17/2001** 

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00

PROJECT:

**FISH STUDY** 

SAMPLED BY:

J ORR

LOCATION:

CLEMSON SC

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0500	μg/L	4/25/01	
Aroclor 1221	ND	0 0500	μg/L	4/25/01	
clor 1232	ND	0 0500	μg/L	4/25/01	
Sclor 1242	ND	0 0500	μg/L	4/25/01	
Aroclor 1248	ND	0 0500	μg/L	4/25/01	
Aroclor 1254	ND	0 0500	μg/L	4/25/01	
Aroclor 1260	ND	0 0500	μg/L	4/25/01	

Total PCB Amount > Reporting Limit

μg/L

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

Rober E. Wogm



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

#### CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

**CUSTOMER ID:** 

TRIP BLK-1

NEA ID:

AE02335

MATRIX:

WATER

**DATE SAMPLED:** 04/17/2001

TIME: N/A

04/19/2001

**TIME:** 11 00

**PROJECT:** 

**FISH STUDY** 

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

DATE RECEIVED:

N/A

LAB ELAP #:

11078

PARAME FER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 0500	μg/L	5/1/01	
Aroclor 1221	ND	0 0500	μg/L	5/1/01	
clor 1232	ND	0 0500	μg/L	5/1/01	
Sclor 1242	ND	0 0500	μg/L	5/1/01	
Aroclor 1248	ND	0 0500	μg/L	5/1/01	
Aroclor 1254	ND	0 0500	μg/L	5/1/01	
Aroclor 1260	ND	0 0500	μg/L	5/1/01	

Total PCB Amount > Reporting Limit

0.00

μg/L

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RHD E. Wogn





ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

**CONTACT: JIM ORR** 

**CUSTOMER ID:** 

TRIP BLK-2

NEA ID:

AE02337

MATRIX:

WATER

**DATE SAMPLED:** 04/17/2001

TIME: N/A

DATE RECEIVED:

04/19/2001

TIME: 11 00 PROJECT:

FISH STUDY

**SAMPLED BY:** 

J ORR

LOCATION:

**CLEMSON SC** 

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	anated Biphenyls	-			
Aroclor 1016	ND	0 0500	μg/L	5/1/01	
Aroclor 1221	ND	0 0500	μg/L	5/1/01	
oclor 1232	ND	0 0500	μg/L	5/1/01	
Clor 1242	ND	0 0500	μg/L	5/1/01	
Aroclor 1248	ND	0 0500	μg/L	5/1/01	
Aroclor 1254	ND	0 0500	μg/L	5/1/01	
Aroclor 1260	ND	0 0500	μg/L	5/1/01	

Total PCB Amount > Reporting Limit

0.00

μg/L

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

**AUTHORIZED SIGNATURE** 

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

RAD I. Wogn



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

# LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SP	IKE % RECOV	/ERY	
AE02297 M	=	149 μg/g	
AMOUNT SPIKED	=	104 μg/g	
PERCENT RECOVERY	=	104 %	

LABORATORYMATRIX SP	IKE DUPLICATE% REGOVERY.
AE02297 K	= 15 8 μg/g
AMOUNT SPIKED	= 109 μg/g
PERCENT RECOVERY	= 108 %

LABORATOR	MATRIX SPIKE D	IFFERENCE %	REC P. L.	OVERY#
AE02297 M		=	104	%
AE02297 K		=	108	%
PERCENT DIF	FERENCE	=	3 77	%

DABORATIONY GONDROLLSPIN	ট্ৰ% য়েছত	OMPLOY STATEMENT
AE02297 L	=	119 μg/g
AMOUNT SPIKED	=	109 μg/g
PERCENT RECOVERY	=	109 %

LABORATORY	AETHOD BLANK	
AE02297 B	= < 0	) 0546 µg/g

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

# LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

# AE02322 M = $11.3 \mu g/g$ AMOUNT SPIKED = $10.2 \mu g/g$ PERCENT RECOVERY = 10.4 %

LABORATORY MATRIX SPIKE DUPLIC			
AE02322 K	=	117 μg/g	
AMOUNT SPIKED	==	106 μg/g	
PERCENT RECOVERY	=	103 %	

	LABORATORYMATRIXSPIKEDIFFE	RENCE %	REC	XVERY .
	AE02322 M	=	104	%
	AE02322 K	=	103	%
	PERCENT DIFFERENCE	=	0 966 9	%
1				1

" ITABOIXAIOIXA COMILIOP ZHIKIP	RECO	XVIER	Ŋ
AE02322 L	=	11 I	μg/g
AMOUNT SPIKED	=	109	μg/g
PERCENT RECOVERY	==	102	%

LABORATORY ME	TRIALE GOTTI
AE02322 B	= < 0.0515 μg/g

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner Laboratory Director



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/02/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

# LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

EABORATORYMATRIX SI	IKE%RECOVERY	The state of the s
AE02415 M	= 15 6 μg/g	
AMOUNT SPIKED	$= 10.8 \mu g/g$	
PERCENT RECOVERY	= 93 1 %	

	to a graboratory Matrix spike du	Ideania%.	RECO	Mark 1
	AE02415 K	=	154	μg/g
	AMOUNT SPIKED	=	107	μg/g
	PERCENT RECOVERY	=	915	%
ł				

	LABORATORY/MATRIXSPIKEDIETE	RENCE %.	REC	OVERV.	
	AE02415 M	=	93 1	%	l
	AE02415 K	=	91.5	%	l
	PERCENT DIFFERENCE	=	1 73	%	
1					

LABORATIORY CONTROL SIZE	ar % lanco	VIAR)	Y
AE02415 L	=	118	μg/g
AMOUNT SPIKED	=	109	μg/g
PERCENT RECOVERY	==	108	%

	FAROLEALOLLA MEHIOD BP	ANT.		
Al	E02415 B	=	< 0.05	49 μg/g

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

# LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATIONY CONTERC	DL'SPIKE % RECOVE	337
AE02446 L	= 12 3	μg/g
AMOUNT SPIKED	= 110	μg/g
PERCENT RECOVERY	= 112	%

# LABORATORY METHOD BLANK

AE02446 B

= < 0.0555  $\mu$ g/g

AUTHORIZED SIGNATURE Northeast Analytical, Inc

Robert E Wagner, Laboratory Director



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

# LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX S	PIKE % RECOVI	ERY	
AE02446 M	=	192 μg/g	
AMOUNT SPIKED	=	110 µg/g	
PERCENT RECOVERY	=	111 %	1

LABORATORY MATRIX SPIKE D	UPLICATE % RI	ECO	VERY.
AE02446 K	= 1	185 <sub>k</sub>	ıg/g
AMOUNT SPIKED	= 1	107 µ	ıg/g
PERCENT RECOVERY	= 1	08 %	6

	LABORÁTORY MATRIX SPIKE DIFF	ERENCE %	REC	OVERY
	AE02446 M	=	111	%
1	AE02446 K	<del>-</del>	108	%
	PERCENT DIFFERENCE	=	2 74	%
1				

INTERPRETATION OF THE PROPERTY CON	ROUSPIKE%REGOVER	
AE02446 L	= 123	μg/g
AMOUNT SPIKED	= 110	μg/g
PERCENT RECOVERY	= 112	%

EABORATORYME	HHODBEANK
AE02446 B	= < 0 0555 ug/g

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 05/03/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

# LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SP	IKE % RECO	VERYALL ALLE	
AE02462 M	==	12 0 μg/g	
AMOUNT SPIKED	=	104 μg/g	
PERCENT RECOVERY	=	108 %	

BORATORY MATRIX SPIKE		OVERY 140 STORY
AE02462 K	= 12.2	2 μg/g
AMOUNT SPIKED	= 104	<b>1</b> μg/g
PERCENT RECOVERY	= 109	%

LABORATORY MATRIX SPIKE DIFF	EKUNCE. 76 F	RECO	VERY
AE02462 M	=	108 9	<b>1</b> / <sub>0</sub>
AE02462 K	=	109 9	/ <sub>0</sub>
PERCENT DIFFERENCE	=	0 922 %	6
			1

LABORATION GONERIO ESPIRE	%:REC0	VIER!	Y
AE02462 L	=	109	µg/g
AMOUNT SPIKED	=	100	μg/g
PERCENT RECOVERY	=	109	%

LABORATORYM	HILODBIANE
AE02462 B	= < 0.0522 μg/g

AUTHORIZED SIGNATURE

Northeast Analytical Inc.

Northeast Analytical, Inc

Robert E Wagner Laboratory Director



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

# LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPI	KE%RECO	VERY Ave	
AE02511 M	=	12.5 μg/g	
AMOUNT SPIKED	=	10.5 μg/g	
PERCENT RECOVERY	=	118 %	

LABORATORY MAIRIX SPIKEDU	REICANT %	TEC C	OVERV.
AE02511 K	=	14 0	μg/g
AMOUNT SPIKED	=	108	µg/g
PERCENT RECOVERY	=	129	%

LANGOR VIOLENTA SERVICE DI LE CONTRA LA LANGOR VIOLENTA SER LA CONTRA LA CON	RENGE %	REC	OVERV.
AE02511 M	=	118	%
AE02511 K	=	129	%
PERCENT DIFFERENCE	=	891	%

LABORATIONY CONTINOLSE	une % rucc	STELLY.	Y
AE02511 L	=	123	μg/g
AMOUNT SPIKED	=	10 7	μg/g
PERCENT RECOVERY	=	116	%

LABORATIORY MET	HOD BLANK.
AE02511 B	= < 0.053 μg/g

AUTHORIZED SIGNATURE / L. J. Z. L.

Northeast Analytical, Inc
Robert E Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

# LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LANGUE ABORATORY MATRIX	SPIKE% RECOVERY
AE02492 M	= 14 1 μg/g
AMOUNT SPIKED	$= 10.4 \mu g/g$
PERCENT RECOVERY	= 127 %

	SEABORATORY MATRIX SPIKE DUP	17 COA 1 COA 70 C	ŒĠ(	DVERY
	AE02492 K	=	13 3	μg/g
	AMOUNT SPIKED	=	11	µg/g
	PERCENT RECOVERY	=	112	%
i				

LAND LEABORATORY MATRIX SPIKE DIFFE	RENGE%	REC	OVERY	
AE02492 M	=	127	%	
AE02492 K	=	112	%	
PERCENT DIFFERENCE	=	12 6	%	

LAVEORATIORNY CONTINOL SHE	at % layed	More	
AE02492 L	-	12 5	μg/g
AMOUNT SPIKED	=	109	μg/g
PERCENT RECOVERY	=	114	%

LABORATORY METHOD I	LAN				i Č
AE02492 B	=	< (	0524	μg/g	

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E Wagner Laboratory Director



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/04/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

# LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX S	PIKE % RECOV	ERY.	
AE02462 M	=	12 0 μg/g	
AMOUNT SPIKED	=	10 4 μg/g	
PERCENT RECOVERY	=	108 %	

LABORATORY MATRIX SPIKE DUP	LICATE.%	RECOVERY	
AE02462 K	=	12.2 μg/g	
AMOUNT SPIKED	<del>=</del>	104 μg/g	
PERCENT RECOVERY	=	109 %	

	LABORATORY MATRIX SPIKE DIF	FERENCE % R	ECO'	VERY
	AE02462 M	= 1	108 %	, 5
	AE02462 K	= 1	109 %	,
į	PERCENT DIFFERENCE	= 0	922 %	,

LABORATORY CONTROL SPIK	E% REGO	VER	
AE02462 L	=	109	μg/g
AMOUNT SPIKED	=	100	µg/g
PERCENT RECOVERY	=	109	%

	LABORATORYMETHO	)D BEANK		
AE024	162 B	=	< 0.0522 μ	g/g

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner Laboratory Director

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> **CERTIFICATE OF ANALYSIS** 05/16/2001

**ERM-SOUTHEAST, INC.** 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR** 

# LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SP	IKE% RECO	VERY, 5	
AE02828 M	=	119 µg/g	
AMOUNT SPIKED	=	105 μg/g	
PERCENT RECOVERY	=	105 %	

	LABORATORY-MATRIX SPIKE DUPL	TANA LHAVA H	ECC	J.V.P. K.Y.J.S. State Committee at the state of the state
	AE02828 K	=	12 2	μg/g
İ	AMOUNT SPIKED	=	109	µg/g
	PERCENT RECOVERY	=	103	%
1				

,我们也没有一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	IXSPIKED TRUBENCE	ぎい ノス・マップ	「プランス・ファイン・ストンス・ストンス・ストラース・スト
AE02828 M	=	105	%
AE02828 K	=	103	%
PERCENT DIFFERENCE	=	1 92	%

	LARORANORY CONTROLS HIS	.% ( <b>tito</b> o	XIER.	Y
	AE02828 L	=	110	μg/g
	AMOUNT SPIKED	=	109	μg/g
-	PERCENT RECOVERY	=	101	%

	LABORATION ME	HITODO BINATIK	Mary Living Transport
A	E02828 B	- <	< 0.0526 μg/g

AUTHORIZED SIGNATURE \_\_\_\_

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

\_\_\_M\_M\_\_M\_\_\_

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

# LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

# LABORATORY MATRIX SPIKE % RECOVERY AE02808 M = 17 2 μg/g AMOUNT SPIKED = 10 9 μg/g PERCENT RECOVERY = 111 %

	LABORATORY MATRIX SPIKE DU		ECC	OVERV
	AE02808 K	=	15 3	μg/g
	AMOUNT SPIKED	=	103	μg/g
	PERCENT RECOVERY	=	98 9	%
ı				

	LABORATORY MATRIX SPIKE DIF	FERENCE %	REG BR.	OVERY
	AE02808 M	=	111	%
ĺ	AE02808 K	=	98 9	%
	PERCENT DIFFERENCE	=	115	%
- 1				4

- LABORATORY CONTROL SPIL	KE% RECO	OVER	
AE02808 L	=	113	μg/g
AMOUNT SPIKED	=	10 7	µg/g
PERCENT RECOVERY	=	105	%

	LABORATORY METHOD BL	NK	別		n ne	, i egy.	
AE0286	08 B	=	<	0 0505	5 μg/g		

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

> **CERTIFICATE OF ANALYSIS** 05/16/2001

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

# LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

A - Figure 1 - Figure 2 - Figure	PIKE % REGOVERY
AE02788 M	= 112 μg/g
AMOUNT SPIKED	= 12 3 μg/g
PERCENT RECOVERY	= 90 7 %

	LABORATORY MATRIX SPIKE DUI	PLICATE;%[	(ECC	WERY .
	AE02788 K	=	110	μg/g
	AMOUNT SPIKED	=	123	µg/g
į	PERCENT RECOVERY	=	88 5	%

LABORATORYMATRIX SPIKE DO	FERENCE%	REC	OVER94
AE02788 M	=	90 7	%
AE02788 K	=	88 5	%
PERCENT DIFFERENCE	=	2 46	%

LATO	RATONINA OD VANORAN	ineri %eriue	Dir.	
AE02788 L		=	9 42	μg/g
AMOUNT S	PIKED	=	102	μg/g
PERCENT R	LECOVERY	= !	92 2	%

THE PAROLAND PARTIES	LANI	<b>3</b>		
AE02788 B	_	< 0.0554	4 μg/g	

AUTHORIZED SIGNATURE ( Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

#### NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 06/18/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

#### LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

- LABORATORY MATRIX SPIK	E % RECO	VERY ***	
AE03536 M	=	161 μg/g	
AMOUNT SPIKED	=	10 2 μg/g	
PERCENT RECOVERY	=	128 %	

	LABORATORY MATRIX SPIKE DUI	LICATE %	RECO	VERY
	AE03536 K	=	166	µg/g
	AMOUNT SPIKED	=	10 7	μg/g
i	PERCENT RECOVERY	222	126	%
i				

LABORATO	ORY MATRIX SPIKE DI	FFERENCE % R	EĈŌ	VERY
AE03536	M	= 1	28 %	ó
AE03536	K	= 1	26 %	,
PERCENT	DIFFERENCE	= 1	57 %	ó

1 LABORATORY CONTROLS	HAE % REEO	AER	$\mathbf{Y}_{\mathbf{x}}$
AE03536 L	=	128	μg/g
AMOUNT SPIKED	=	109	μg/g
PERCENT RECOVERY	=	118	%

LEAR OF A TION OF THE STATE OF	HODBLANK
AE03536 B	= < 0.0555 μg/g

AUTHORIZED SIGNATURÈ

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

Reld 2

#### NORTHEAST ANALYTICAL



ENVIRONMENTAL LAB SERVICES 2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 06/19/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

#### LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

F ( )	LABORATIONY CONTINOL	SPINE % RECOVE	RY
A	E02476 L	= 13	0 µg/g
	MOUNT SPIKED		0 µg/g
P1	ERCENT RECOVERY	= 118	3 %

## LANGORATIONY METITIOD BLANK $= < 0.0522 \quad \mu g/g$

AUTHORIZED SIGNATURE Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

### NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 06/20/2001

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

#### LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

#### LABORATORY MATRIX SPIKE % RECOVERY

AE02304 M

= 152 μg/g

AMOUNT SPIKED

103 μg/g

PERCENT RECOVERY

= 139 %

\* Matrix spike duplicate fails recovery limit of 75-125% This is due to high PCB background existing in sample and/or matrix variability

#### LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02304 K

= 168 μg/g

AMOUNT SPIKED

10 6 μg/g

PERCENT RECOVERY

= 151 %

\* Matrix spike duplicate fails recovery limit of 75-125% This is due to high PCB background existing in sample and/or matrix variability

#### LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY 12.

AE02304 M

139 %

AE02304 K

151 %

PERCENT DIFFERENCE

8 28 %

### LABORATORY CONTROLESPIKE % RECOVERY

AE02304 L

12.5 μg/g

AMOUNT SPIKED

= 110 μg/g

-----

...

PERCENT RECOVERY

= 114 %

#### . TATEORATION METHODARIANK

AE02304 B

< 0.0537 μg/g

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E Wagner Laboratory Director

Note After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM-Southeast at the address shown

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC 7106 Crossroads Blvd Suite 228 Brentwood, TN 37027

(615) 373-3350

		Relinquis	Relinquis	an isolating in			44	707	)	SD-6	20K	7 7 7		7-14915 JA	1-11-8MS			SV-5350170	SAMPLE 1D		CLIENT B	TO COCCI NAME	1031 Odd
		Relinquished by (Signature)	Relinquished by (Signature)	The Sold State of the Sold Sta			D 7/30	S Sho	<b>F</b>	(4) +		12/4 55		11 92-	-14K 4	-12R 4/27	OIIR tha	5017R 4/27	DATE TIME		CLIENT REPRESENTATIVE	NAME -	V
				7	_		<u> </u>	<> <u>&gt;</u>		X	×	ス		X	X	X	X	X	COMF GRAE		A CALLA	des	
		Date / Time	Date / Time   F	$\frac{1}{2} \sqrt{01/600}$			17	Water		+		Sediment		H	11		M	Fish	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	PROJECT MANAGER	ACI LEA	PROJECT/LBOATION	
	(Signature)  Hill Culture		Received by (Signature)	Received by (Signature)			1402903	AE 22902		AE02901	AE 02800	AED2899	/	868t034	AEn2897	AED2896	AED2895	AE02894	SCRIPTION Point of Sample)		16/8 373 3360	Sex So	
							-		•	2	2	V			/				NI CC	JMBER	R OF VERS		
	5-1-01 /700		Relinquished by (Signature)	Relinquished by (Signature)									-		-	,				3/8/		/A/B	
_	Remarks		alure)	ature)																		/c/D/E/F	
			Date / Time	Date / Time			Jamo,								MS M	Robins S		Review		ANALYSE		/G/H/I/	Brent
			Received by (Signature)	Received by (Signature)		-	C 13.C								54/11-CAJUS	Colera SV647-12/	27537-0	£11 57 535-017		ANALYSES REQUESTED AND REMARKS	01050009		Brentwood, TN 37027
			ature)	ature)			) C							149110	C.11/11	700		7/0			<b>.</b>		(615) 373-3350

# CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC 7106 Crossroads Blvd Sulte 228 Brentwood, TN 37027

(615) 373-3350

							· .	
)		8-1-01 1000	Rice	Huse Circle				٠.
	Hemarks	o die		. Signal				<b>,</b> .
		7	atory by	Dale / Time : Received for Laboratory by		Relinquished by (Signature)	Relinquished	
	<del></del> -	T- :						•
Date / Time Received by (Signature)		Relinquished by (Signature)	ature)	Date / Time Received by (Signature)		remisered by (Signature)	i cililquisiled	
-	-					by (Signatura)	Relinquished	. <b>.</b>
•				12 V2 160 18	7/2/2	THE MAN	4	ي-" ن
Date / Time   Received by (Signature)		Relinquished by (Signature)	ature)	⋜		by Signature	Relinquished	<u>.'</u> -
-	-		_				-	V. 1. /
	-	-					-   -	.,
4				.   -			A .	انامورا د
Emp (13.0)	-			71702				, % c
, 0,	,		2	C. C. Marie B. C.	 ×	5/4/20	となが	
			2	Water AE 9291	><	420	447	غدراء
-	,					<del> </del>		in or
			7/0	AE0290	×	4	50-646	37
			2 00	1 AE 02900			162010	المراجعة المراجعة
				Sediment At 02849	5 >	5 7/4/	ヘアング	<u> </u>
			3		1			. ,
			86.87	RFO34	7	2		• .
1 24915-14 LOS 1961-			60 -	ACA	< \	7/	-1491S	πÇ
			1 (1200	11	<u> </u>	文文	H-11-9115	ıης
. !	25	->-	100	11 AEDJ896	×	JR 4/10	321-119NS	, ' <del>F</del>
2 57 535-011			35	1 AEDZ895	X	IR 4/2	SYSSOIIR	47.52
P.J. 811536-017			76	1286 JE 02894	X	17R 4/27	SV-5350170 4/27	oli, je
			N C	(Include Matrix and Point of Sample)	COM	UA I E	ID,	
AND REMARKS			IUMB ONTA	CAMBLE DESCRIPTION	IP.		SAMPLE	
			ER C	ECT MANAGER		RESENTATIVE	CLIENT REPRESENTATIVE	
// 0/050000			— ⊃F	USES ESTANOHILATION IN MINISTER IN THE MENTINGEN AND THE MENTINGE		? PROJEC	9/12/08/d	
3/H/1/	)/E/F/G	/A/B/c/D		PROJECTA DOMESTICAL SC	Studio	Ĭ		
Distinace, 114 3/02/ (015) 3/3-3350							PROJECT NAME	

White copy return

yellow copy to lab, pink copy to sampler

S WDMINCOC FORM XLS (Revised March 200)				-	Service of the servic
DATE/TIME	PATE/IME	DA EVILME		-	
COMPANY			DATE/TIME	DATE/TIME	DATE/TIME
	COMPANY	COMPANY	COMPANY A SA	COMPANY	COMPANY
PRINTED NAME	PRINTED NAME	PRINTED NAME P	PRINTED NAME	- RIVIEU NAME	
SIGNATURE	SIGNATURE	U GNA CORE			PRINTED NAME
RECEIVED BY	RELINQUISHED BY .	RECEIVED BY		SIGNATURE	SIGNATURE
	z	RECVD WII HOLDING TIMES 'Y	COC DISCREPANCIES	BECEIVED	RELINQUISHED BY
	OTHER NOTES	PROPERLY PRESERVED Y N	Z	×   [	RECEIVED BROKEN OR LEAKING
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		TEMP	AMBIENT OR CHILLED
			ALCONO 11		•   5/1/1/1/2   •   5/1/4   •
		< \ \ \	DE 60 2011		SV641 - 23
		×	AF 02815	,	7/641-97
		X	AE 02814		DV100-16K
15. 75. 45. 45. 45. 45. 45. 45. 45. 45. 45. 4	-	×	3 :		
The state of the s		×	AE028/2		C 100 ~ 1
	-	×	110001		• SV 1710-17L
	,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TO SELECTION OF THE PARTY OF TH		€ 150100-23
			AF02810		DV106-22
		×	1 1 1 1 AE02809		ON IO TO
		X	FISH grave AED2808	426-01	1'
REMARKS			MATRIX COMP (NEA USE ONLY)	DAIL	SAMPLE ID
		_	GRAB/	$\dashv$	SAMPLE ID
o - Onlei			LAB.	E-MAIL ADDRESS	RESULTS TO BE E-MAILED
8 - Other				2 13	DD 01 = 10 DD 11 1
7 - NaHSO4		OF (	TO TOX		FRINGE
6 - MeOH					
5 - 7n Accetate		NTA	CTANDARO		SAMPLING FIRM
/ 4 - NaOH		INE	REQUIRED TURN AROUND TIME	,	TAX De B
2 - HNO3		RS		00	SAMPLED BY BLANCH OF OUR OF
1-HCL		*	CCMOON	)	S C C C C C C C C C C C C C C C C C C C
0 - NONE		BOTTLE SIZE	Al Dalina Cr		
マスロのロスマンニマロスロイ		BOTTLE TYPE	LOCATION (CITYISTATE) ADDRESS		PROJECI MANAGER
_		PRESERVATIVE CODE:	MSH STUDY.		
B BEOLIECTED	ENTER ANALYSIS AND METHOD NIIMBER REDIFECTED	ENTER ANAL	PROJECT#/PROJECT NAME		CLIENT (REPORTS TO BE SENT TO)
Additional charges incurred for disposal (If hazardous) or archival Call for details	onal charges incurred for disposal (If I	. Addit	8-		www nealab com
EAST ANALYTICAL	ARCHIVAL BY NORTHEAST ANALYTICAL	ONI V	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Telephone (518) 346-4592 Fax (518) 381-6055	Telephone (518)
EAST ANALYTICAL	DISPOSAL BY NORTHEAST ANALYTICAL		v. NY 12308 5   BE# 1/04014	Drive, Schenectac	2190 Technology
	RETURN TO CLIENT		  	NORTHEAST ANALYTICAL, INC.	NORTHEAS.
be filled in by Client)	DISPOSAL REQUIREMENTS: (To be filled in by Client)	DISPOS		7 CO3 CD 7 NE	
		9		CHAIN OF CHATODY BECORD	CHAIN
-					

S WDMINICOC FORM XLS (Revised March 2001)

· -,		DATE	COMPANY	PRINT	o de la	-3	REC	AMB		- 7	. ;. -		T.		75	0 -		<u> </u>	2		RES RES	-		SAMI	** <u>*</u>	SAM	PHO		हि	π		N	ر در این <del>در</del> این	
, ;	-	ATEITIME	YNA	RINTED NAME	DIGNATURE	1	EIVED BRO	AMBIENT OR CHILLED		`	-				100			2 = 2	1 3	2	OL S IC	1	T A T	SAMPLING FIRM	7		7	ح دیم	JECT MAN	15'W 2	WWW	2190 <sup>-</sup> Telept	NOR	\$ 1.00, \frac{1}{2} \frac{1}{2} \frac\frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac
	D	-			9.	RELINQUISHED BY	RECEIVED BROKEN OR LEAKING	HILLED			-	-	1.	4	And row and	ا د		5 2	SAMPLE ID	AMDI F	RESULTS TO BE E-MAILED		FRMSF	3	ORR	SAMPLED BY (Please Print)	7 - 7	I'm ORR	AGER	7	www nealab com	Techn າone (	THE	CHA
				-	\$ == ;	ОВУ	EAKING			-	1				JUE		$\left\langle \cdot \right\rangle$		.   5	5   E			• (		6		2	Z		י מרוא ו	COM	ology (518)	AS	ZO
							Υ	TEMP	,		-		-	-	+	<	1	I F		FAX.	] [_ K					350				2	=	Drive 346-4	TA	F.CL
		DATEMINE	COMPANY	PRINTED NAME	SIGNATURE		z	Ū								8	1		DATE	*	E-MAIL ADDRESS											e, Sch 592	VAL	CHAIN OF CUSTODY RECORD
				WE	. <del>-</del>	RECEIVED BY									7.	×	<b>P</b>	7 1	TIME		SS										Inform	enect Fax	XTX	)DY
						ED BY	000	000			ļ		<u> </u>		F	7		77	+	$\dashv$		-	MAN		X III	7	$\perp$		50	PRO	Information @nealab com	2190 Technology Drive, Schenectady, NY 12308 Telephone (518) 346-4592  Fax (518) 381-6050	RTHEAST ANALYTICAL, INC.	REC
-	ă	· - 572	7		. }		COC DISCREPANCIES	COC TAPE		-	1.5	<b>/</b> :			HS	5	F)	<b>3</b>   <del>+</del>	MATRIX		.,	FedEX	E OF COUR	TH	D RED TOR		1,00	د.	TON ICE	ECT#/PRC	ညneala	NY 12308	NO	ORD
	DATETIME	COMPANY	- (1) - (1) - (1)	PRINTED NAME	SIGNATURE	- '	NCIES	1. 3. K	ر د د. مر	- 5次 - 5次 -	7.5		_	-		~	2	drab	COMP	GRAB/	17.5	×	NAME OF COURIER (IF USED)	OTANDARD	REQUIRED TURN AROUND TIME		CLEMSON, SC	> -	LOCATION ICITY/STATE ADDRESS	PROJECT#/PROJECT NAME	b com	308	1 ,	
	- <u>-</u> -			ME	7	RELIN	Υ	z	- ; , - ; ,	,			"	1	Æ	377		) Ac	1_				ED)	6	→ TIME	,	کرک		ODRESS DRESS	) (		LRF	-	PAGE
	-					RELINQUISHED BY	z								AEU283	220	<b>1</b> 2×	81820	NEA US	SAMPLE ID	LAB						7					#		H H
	h														35	100	22	18	(NEA USE ONLY)		В				:						(NEA	1710A91C		
	ОАТЕЛТМЕ	COMPANY		PRINT	SIGNATURE	XEC	7	PROP										-	-	NU	IMBE	 ER O	F C		AINE	RS	$\top$		PR		(NEA USE ONLY)	110		유 L
	TIME	ANY		PRINTED NAME	ĺ	KECAD ANI HOLDING TIMES		PROPERLY PRESERVED							X	(				_								BOTTLE	PRESERVATIVE CODE;		3	7		2
					KECEIVED BY	DING TIME	200	SERVED	+						_	()(				S	08	2	_	\	_		3716		IVE COD					
			•		-	S	-	<u> </u>	$\dashv$	$\dashv$						3	2			_			<	_			•	-	, Tu	NTER A		<del></del>		DISF
-   -	DATETIME	COMPANY	PRINTE	-	SIGNATURE	z	2	-	+			+		-		K				_	_	_	\	\			+			NALYSI	Additional	O(	)()	DISPOSAL REQUIREMENTS
	. <u>M</u>		PRINTED NAME					$\mid$				-					>			_			\	\	_		+			SAND	charges in	ARC	RET	REQUI
	-				RELINQUISHED BY	_		01111						_			>		/	\	_		\	\	_			-		METHOL	curred for	HIVAL B	RETURN TO CLIENT	REME
		-  -		-			OTHER NOTES	_	+			1				X			/	_	_		\	\	_		-			NUMB	disposal (	YNORT	CLIENT	TS: (T
S WC	OATE/TIME	COMPANY	PRINTE	SIGNATURE						-	+		+		-	4	ィフ		\				\	_			+			ENTER ANALYSIS AND METHOD NUMBER REQUESTED	Additional charges incurred for disposal (if hazardous) or archival Call for details	ARCHIVAL BY NORTHEAST ANALYTICAL		(To be filled in by Client)
MINICOC FO	IME	Y	PRINTED NAME	CRE												V	グ		ا ا در				\	\	_		+			UESTE	us) or arc	ANALY		led in t
SIAME					RECEIVED BY											4	<b>&gt;</b>		REMARKS		a - Oiner	。	ნ - <u>⊀</u>	5-2	4 · Z	2 - HNO3	J1-HCL	0-NONE		D	hıval Cali	TICAL		y Clier
S ADMINICOC FORM YIS (Revend these poor)					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \											X			S		iner	7 - NaHSO4	6 - MeOH	5 - Zn Acetate	4 - NaOH	2 - HNO3	CL	ONE	PRESERVATIVE KEY		for details			<b>1</b>
733															İ	4	۷												₩ ₩		uA.			

ERM-SOUTHEAST, INC 7106 Crossroads Blvd Sulte 228

54106-B Sy106-22 R-401AS White copy Relinquished by (Signature) Relinquished by (Signature) PROJECT NAME Relinquished by (Signature) CLIENT REPRESENTATIVE TO SULOT-ZI Y PROJE 54109-52 なんのか SAMPLE ID RM, yellow copy to lab, pink copy to sampler DATE PROJECT CONTACT アートョ TIME COMP GRAB **※**○< PROJECT MANAGER PROJECT (OC) TEMBER SUN SUN (Include Matrix and Point of Sample) Date / Time 1/01/1000 Date / Time Date / Time SAMPLE DESCRIPTION 157 615575335 Received for Laboratory by Received by (Signature) Kusa Citaca CHAIN OF CUSTODY RECORD NUMBER OF CONTAINERS 4-3001 0820 Relinquished by (Signature) Relinquished by (Signature) Date / Time SAMPLERS (Signature) Remarks Ceplaces Date / Time Date / Time horat. AND REMARKS Brentwood, TN 37027 C1080197 Received by (Signature) Received by (Signature) (615) 373-3350

ERM-SOUTHEAST, INC 7106 Crossroads Blvd Sulte 228

White copy re		Relinquished by	Relinquished by (Signature)		Relinguished by	-	-	1990/12	7557		アンジャン	ADB'S	2000 2000 2000 2000 2000 2000 2000 200	4847	1200 QZ	2000	5000	2D-001	SAMPLE	4	REPBES	PRO INC.	PROJECT NAME
RM, yellow copy to lab, pink copy to sampler		(Signature)	(Signature)	De la constitución de la constit	(Sonative)			420	7 25	13	13	2	3	7300	04:21	720	- Sec -	X oral to bach	DATE TIME COMP		MITATIVE CONTO	WALLS SO	
sampler	L	Date / Time	Date / Time	1/2/01/000	٠ ا													Scali Men	SAMPLE DI	PHONEC! MARIA	<u> </u>	PROJECT LOCATION	N .
200 300 200 200 200 200 200 200 200 200	(Signature)	December 1	Received by (Signature)	Hegelved by TSignatures			,	AE 02807	AEO2806	HED1805	AE 02-804	1)E U2-6U2	AT (1) 8/2	A-07 807	AF02X01	AF02SOO	AF02799	AF0779R	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)		0.5444.519	an SC	
	#3		Relinguish	Relinquish			,	<del> </del>							- ,		-	7, 11	NU COI	MBEF	OF		CHAIN OF CUSTODY RECORD
SAMPLERS	0.01 0.820 Remarks		Relinguished by (Signature)	Relinquished by (Signature)					`											*		/A/B/c/D/	30
RS (Signature)	ς,	Date / Time		Date / Time			,													ANAL		E/F/G/H/1	B. Si
		Heceived by (Signature)	-	Received by (Signature)															NO HEMAHNO	ANALYSES REQUESTED	94104010	7	Sulte 228 Brentwood, TN 37027
		mature)		nature)																			(615) 373-3350

ERM-SOUTHEAST, INC 7106 Crossroads Blyd Suite 228 Brentwood, TN 37027

4	3	Moone County Compon	The room of		/ A	/B/C/D/	'E/F/G/H/		
であり	PROJECT CONTACT	OKA T	1612 21333CO	OF RS	\			(0)	1216/14/6/
CLIENT REPRESENTATIVE	VITATIVE	PROJECT MANAGER	0	IBER TAINE			\ \ \ \ \ \	NALYSES F	REQUESTED
SAMPLE	DATE TIME OMP	:	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	CON.				AND RE	AND REMARKS
7 199-US	Histor From X	Sedimen	Ment AEA 170%	1			2	0	1 7700
20-008	13151			1				>D'3	
5))-889	/550		חפרואש	1					
1.000.1			AFA3741	į	•				
Spac.	020		AFNITAI						
Spoll	Olfri		AFN793	71					
21005	1470		NF02794	7					
5 D 0 13	You		NE 02795	1					
41002	1500		AE12796	4	-				
Siade	530	Ť	AE 02797	7					
							1	7.5	
Relinquished by	(Signature)	Date / Time / 1000	Received by (Signature)		Relinquished by (Signature)	(Signature)	Date /	/ Time A	Received by (Signature)
Relinquished by	(Signature)	Date / Time	Received by (Signature)	7	Relinquished by (Signature)	(Signature)	Date /	Time R	Received by (Signature)
Relinquished by	(Signature)	Date / Time	Received for Laboratory by (Signature)	, v	Date / Time 4-27-4/ 10	Remai 30	, \( 0 \)		

PROJECT NAME

ERM-SOUTHEAST, INC 7106 Crossroads Blvd Suite 228

Brentwood, TN 37027

CHAIN OF CUSTODY RECORD

(615) 373-3350

6VW2-11 PROJECT NO Fr-lhave Relinquished by (Signature) Relinquished by (Signature, CLIENT REPRESENTATIVE Relinquished by (Signature) 12-15MS 5VU1-18 e-may 28-6 2-8111S 51/07-20 1947-10 SAMPLE ID 12-120 8-6 thuch DATE TIME COMP GRAB × PROJECT MANAGER PROJECT LOOKTION TO SON (Include Matrix and Point of Sample) Date / Time Date / Time Date / Time SAMPLE DESCRIPTION 600 Vater 1618413335C Received by (Signature) Received by (Signature) Received for Laboratory by (Signature) Kisa Chica NUMBER OF CONTAINERS 12701 | 1030 Relinquished by (Signature) Relinquished by (Signature) Date / Time SAMPLERS (Signature) 1 4 of Date / Time Date / Time T-W ANALYSES REQUESTED AND REMARKS ACCS Received by (Signature) Received by (Signature)

Whate copy rea RM, yellow copy to lab, pink copy to sampler

Note After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express tickel to ERM-Southeast at the address shown.

# CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC 7106 Crossroads Blvd Suite 228 Brentwood, TN 37027

(615) 373-3350

		l ie.		Sugar Sugar	in the	M 5.	ž. ~		. š., a.,	1 14	i selje	<u> </u>	٤.					. , .	1 2 72		21	
White copy return, yellow copy to lab, pink copy to sampler		Relinquished by (Signature)	Relinquished by (Signature)	relindusined by Signature				12 C 1/20	100 847	4.4.2	X + 249-05	X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2)535 4/21 K	51641-26 11	SW41-14K "1	-	SVRS-OIIR 4/2	SV-535017R 4/27	SAMPLE DATE TIME &		CLIENT REPRESENTATIVE	NAME FISH S
y to sampler	(Signature) (Signa	Date / Time Received for Laboratory by	Date / Time Received by (Signature)	The Date/ Time Received by (Signature)				X 11 AE02902	X Water AE 22902		Æ	1 AE 02900	Sediment AED2899	X " AEDLEGY	X 11 HEDZGA7	X 11 1 ACD1896	X 11 AEDZ89S	X Fish HEO2894	SAMPLE DESCRIPTION  G (Include Matrix and Point of Sample)	TOOLO WANDAGER	7,7	PROJECT (DOBJON ON SC
	ice 5-1	ьу									7	2	7	_	_				NU	MBE!	- <del></del>	
	1000/ 10-1	Date / Time	Relinquished by (Signature)	Relinguished bý <i>(Signature)</i>																\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		/A/B/
SAMPLERS (Signature)	-	Remarks	ire)	ire)								-				-						C/D/E/F/
nature)			Date / Time	Date / Time			Charle .	6						7.0	· 🖊 📗	4	1	Per		ANALYSES	// 0.	G/H/1/
	•		Received by (Signature)	Received by (Signature)				12,70							10/11/24 1/11 - CA	12/2	SV 535-01	LIO-525/13	LWN IN	ANALYSES REQUESTED	01050009	10.07 0.000

White copy retu

M, yellow copy to lab, pink copy to sampler

SAMPLERS (Signature)

Received by (Signature)

Received by (Signature)

ERM-SOUTHEAST, INC 7106 Crossroads Blvd Suite 228

Note After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the while copy and express ticket to ERM-Southeast at the address shown.

Brentwood, TN 37027

(615) 373-3350

Note After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express lickel to ERM-Southeast at the address shown.

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC. 7106 Crossroads Blyd Suite 228 Brentwood, TN 37027 (615) 373-3350

SV 106-24 DV106-168 SV1010-25 SV106-23 DV106-22 CLIENT (REPORTS TO BE SENT TO) RECEIVED BROKEN OR LEAKING h7-119/05 SV641-23 DV641-22 SV107-22 DV107-21 RESULTS TO BE FAXED SAMPLED BY (Please Print) AMBIENT OR CHILLED RESULTS TO BE E-MAILED RINTEO NAME 2190 Technology Drive, Schenectady, NY 12308 Telephone (518) 346-4592 Fax (518) 381-6055 615-373-335 NORTHEAST ANALYTICAL, INC. Jim ORR JIM OKE www nealab com ERMSE SAMPLE ID CHAIN OF CUSTODY RECORD 426-01 TEMP E-MAIL ADDRESS DATE DATE/TIME SIGNATURE ANVAWO RINTED NAME information @nealab com Fax (518) 381-6055 TIME RECEIVED BY COC DISCREPANCIES FISH REQUIRED "URN AROUND TIME FISH STUDY PROJECT#/PROJECT NAME COC TAPE FED EX STANDARD MATRIX CLEWION, ST BNITGTAG PRINTED NAME SIGNATURE awa COMP GRAB/ z AE02808 NE 02817 PAGE LRF# AE02811 AE02813 NE 028/2 RECINQUISHED BY AR 02816 NE02810 H 02815 NE 02814 (NEA USE ONLY) SAMPLE ID Æ 01040147 (NEA USE ONLY) DATETIME RECVD WII HOLDING TIMES PROPERLY PRESERVED PRINTED NAME SIGNATURE PRESERVATIVE CODE; NUMBER OF CONTAINERS BOTTLE TYPE BOTTLE SIZE X RECEIVED BY X ENTER ANALYSIS AND METHOD NUMBER REQUESTED DISPOSAL REQUIREMENTS. (To be filled in by Client) Additional charges incurred for disposal (if hazardous) or erchival Cali for details BWILC1 VO PRINTED NAME RETURN TO CLIENT DISPOSAL BY NORTHEAST ANALYTICAL ARCHIVAL BY NORTHEAST ANALYTICAL AR D3HSINDNITA OTHER NOTES SIGNA TURE PRINTED NAME REMARKS RECEIVED BY 2 · HNO3 0 - NONE 1. HCL 7 - NaHSO4 6 - MeOH 5 - Zn Acetate 4 - NaOH 3 - H2SO4 PRESERVATIVE KEY 8 - Olher

S MOMINICOC FORM XLS (Revised March 2001)

SAMPLING FIRM

SAMPLING FIRM AND LEGIONS RESULTS TO BE FAXED RESULTS TO BE E-MAILED CLIENT (REPORTS TO BE SENT TO) AMBIENT OR CHILLED RECEIVED BROKEN OR LEAKING RINTED NAME GNATURE ERMSE JIM ORR 2190 Technology Drive, Schenectady, NY 12308 Telephone (518) 346-4592 Fax (518) 381-6055 615-373-3350 NORTHEAST ANALYTICAL, INC. ERMSE www nealab com SAMPLE ID CHAIN OF CUSTODY RECORD E-MAIL ADDRESS TEMP DATE RINTED NAME Information @nealab com TIME RECEIVED BY COC DISCREPANCIES ESH NAME OF COURIER (IF USED) REQUIRED TURN AROUND TIME COC TAPE LOCATION (CITY/STATE) ADDRESS MATRIX JAMDARA CLEMSON, SC FISH STRUDY grab SIGNATURE COMP GRAB/ z LRF# PAGE of d RELINQUISHED BY AE 02818 AEO2835 (NEA USE ONLY) SAMPLE ID CHIO4010 S B (NEA USE ONLY) RECVD WII HOLDING TIMES PROPERLY PRESERVED PRINTED NAME PRESERVATIVE CODE: NUMBER OF CONTAINERS BOTTLE TYPE BOTTLE SIZE 8082 ENTER ANALYSIS AND METHOD NUMBER REQUESTED DISPOSAL REQUIREMENTS: (To be filled in by Client) Additional charges incurred for disposal (if hazardous) or archival Call for details PRINTED NAME SIGNATURE DATETIME RETURN TO CLIENT DISPOSAL BY NORTHEAST ANALYTICAL ARCHIVAL BY NORTHEAST ANALYTICAL RELINQUISHED BY OTHER NOTES DATEMINE REMARKS RECEIVED BY 1 - HCL PRESERVATIVE KEY 7 - NaHSO4 6 - MeOH 5 - Zn Acetate 4 - NaOH 3 - H2SO4 2 - HNO3 0-NONE 8 - Other

Note After the laboratory has received samples and signed the Chain of Custody Record, relain the yellow copy for the Lab lifes. Send the white copy and express licket to ERM Southeast at the address shown. PROJECT NAME

by feturn to ERM, yellow copy to lab, pink copy to sampler		Relinquished by (Signature)	neunduisned by (signature)	And Displaying (Signature)	1		7 94h 1980 7	- -	70.08 100	2700	5,000	20-07 F88-07	042 Sep-05	7	S)-000	20-001 4/2/2 lite X	ID DATE TIME MP	0	CLIENT REPRESENTATIVE	֓֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	PROJECT NAME	The yellow copy for the Lab liles. Send the white copy and express licket to ERM Southeast at the address shown
arpler		Date / Time Received for Laboratory by	Date / Time Received by (Signature)	Halo 1000 hale of 15ignfurge			- AE02807	AE02806	AE01805	AE 02-804	AE 02803	AE02802	1087.034	AFOISO O	0FN7769	Scaliment approa	SAMPLE DESCRIPTION (Include Mathx and Point of Sample)	MBER	0.5884539	PROJECT LOCATION		
SAMPLERS (S	4-30-01 0820		Relinquished by (Signature)	Relinquished by (Signature)													19A4	TAIN	ERS	/A/B/C/D/E/F	CHAIN OF CUSTODY RECORD	
(Signature)			Date / Time Received by (Signature)	Date / Time Received by (Signature)													AND HEMAHKS	ANALYSES REQUESTED	/// 010401416	/G/H/1/	Sulte 228 Brentwood, TN 97027 (615) 373-3350	ERM-SOUTHEAST, INC 7106 Crossicads Blvd

Note After the laboratory has received samples and signed the Chain of Custody Record, relain the yellow copy for the Lab files. Send the white copy and express ticket to ERM-Southeast at the address shown.

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC.
7106 Crossroads Blyd
Suite 228

CLIENT REPRESENTATIVE  SAMPLE SAMPLE ID  SV-5350/7R 4/27	PROJECT NAME
Z COMP COMP	NAME (
C C C C C C C C C C C C C C C C C C C	rish Stu
	S
SAMPLE (Include Matrix Ex.)  SAMPLE (Include Matrix Ex.)  Water  Date / Time  Date / Time	PROJECT COCKION
SAMPLE DESCRIPTION (Include Matrix and Point of Sample)  SAMPLE DESCRIPTION (Include Matrix and Point of Sample)  HEDJ894  HEDJ897  HEDJ898  HEDJ897  HEDJ898  HEDJ89	250
NUMBER OF CONTAINERS	
Relinquished by (Signature)  Bale / Time Remarks  Remarks	/A/B/C/D/E
	/F/G/H/I
ANALYSES REQUESTED AND REMARKS  Replace 8V 535-011  W SV 535-011  W SV642-12 Chans  W SV642-12 Chans  W SV642-12 Chans  W SV642-14 to SV64  Date / Time Received by (Signature)  Date / Time Received by (Signature)	Brentwood, TN 37027 (615) 373-3350

Note: Aller the laboratory has received samples and aigned the Chain of Custody Record retain the yellow copy for the Lab files. Send the white copy and express tickel to ERM Southeast at the address shown.

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC 7106 Crossroads Blvd Suite 228 Brentwood, TN 37027

(615) 373-3350

White the state of		(Signature)	Beling the Control of	Relinquished by (Signature)	FROW I	Relinquished by (Singature)			2/017							D-009 /50	75-000 175		SD-807 High max	High
	Luncaca	Date / Time Received for Laboratory by (Signature)	necewed by (Signature)	\Time	Dale / Time Received by (Signature)				AC 02797	AE12796	NE 02795	VED 3184	NE02193	AE02792	AE02791	AE62790	AE 02789	TEUL 180	Leding + array	ءَ ا
	427-4 1030	Date / Time F	Relinquished by (Signature)		Relinquished by (Signature)				7	7	7	2-1	7	7	2	N	`\	7		Z G
	7.4°C		Date / Time Received by (Signature)		Date / Time Received by (Signature)												- 1	マスパ ナナベ		

eturn to ERM, yellow copy to lab, pmk copy to sampler

SV641-19 SVID SV642-22 RECEIVED BROKEN OR LEAKING SVGYI-21 SV (p41)-18 SV641-17 SV642-23 SV106-2 RESULTS TO BE FAXED AMBIENT OR CHILLED SV641-20 SV642-24 RESULTS TO BE E-MAILED CLIENT (REPORTS TO BE SENT TO) MINTED NAME IGNATURE 615-373-3350 JIM ORR Jun ORR ERMSE 2190 Technology Drive, Schenectady, NY 12308 Telephone (518) 346-4592 Fax (518) 381-6055 NORTHEAST ANALYTICAL, INC. ERMSE www nealab.com SAMPLE ID CHAIN OF CUSTODY RECORD E-MAIL ADDRESS 4-25-0 TEMP DATE RINTED NAME information @nealab com TIME RECEIVED BY PROJECT#/PROJECT NAME COC DISCREPANCIES REQUIRED TURN AROUND TIME LOCATION (CITY/STATE) ADDRESS COC TAPE NAME OF COURIER (IF USED) HS1-3 MATRIX STANDARD Fed Ex CLEMSON, SC drawb SIGNATURE RINTED NAME COMP z PAGE RELINGUISHED BY AE02830 19002823 AE 02826 AE O2825 AE 02829 AEOZBZZ AEO282 TE 02828 PE 02827 HE 02824 (NEA USE ONLY) SAMPLE ID SHIDADIUS (NEA USE ONLY) RECVD WI HOLDING TIMES PROPERLY PRESERVED DATECTIME PRINTED NAME SIGNATURE PRESERVATIVE CODE; 4 NUMBER OF CONTAINERS BOTTLE TYPE BOTTLE SIZE 文文 RECEIVED BY 8082 ENTER ANALYSIS AND METHOD NUMBER REQUESTED DISPOSAL REQUIREMENTS (To be filled in by Client) Additional charges incurred for disposal (if hazardous) or archival. Call for details DATETIME COMPANY PRINTED NAME ARCHIVAL BY NORTHEAST ANALYTICAL RETURN TO CLIENT DISPOSAL BY NORTHEAST ANALYTICAL KELINGUISHED BY OTHER NOTES DATE/TIME SIGNATURE PRINTED NAME REMARKS RECENED BY 1-HCL 2 - HNO3 0 - NONE 6 - MeOH 5 - Zn Acetale 4 - NaOH 3 - H2SO4 PRESERVATIVE KEY 7 - NaHSO4

MAN AUNINON

_										 		•	) 		•	•															
	DATECTIME		COMPANY	PRINTED NAME	SIGNATURE	KELINGUISHED BY	RECEIVED BROKEN OR LEAKING Y N	AMBIENT OR CHILLED TEMP			1 dho11-140AC		7			F 6.	SAMPLE ID DATE TIME	RESULTS TO BE FAXED E-MAIL ADDRESS	072 = 47740	ERMSE	SAMPLING FIRM	Smirred BY (Please Print)	615-873-3350	PHONE	LIM ORR	PROJECT MANAGER	FD W ST	www nealab com informati	2190 Technology Drive, Schenectady, NY 12308 Telephone (518) 346-4592 Fax (518) 381-6055	NORTHEAST ANALYTICAL, INC.	CHAIN OF CUSTODY RECORD
	DATETIME	COMPANY		PRINTED NAME	SIGNATURE	7	COC DISCREPANCIES	COCTAPE Y N			orale in	FISH PARWO	7707		Carl Crap	1	MATRIX COMB		Fed Ex	NAME OF COURIER (IF USED)	STANDARIA	REQUIRED TURN AROUND TIME	1	CLEMSON, SC	COCATION (CITTOTATE) AD	MOH STUDY	PROJECT#PROJECT NAME	Information @nealab com	dy, NY 12308	YL, INC.	ECORD
			, ,			REI INOLIISHED BY	z				AE02836	AE02834	HE01839	VIEDZ887	ME OLAS!	(NEA USE ONLY)	SAMPLE ID	LAB				TIME		),SC	CRESS			(NEA U	LRF# 01040148		PAGE OF
CA E IME		COMPANY	PRINTED NAME		SIGNATURE RECEIVED BY	MECAD AN HOLDING LIMES		PROPERLY PRESERVED		-		- ×	X		. ×		_	МВЕ			ONTA	NEF	RS	BOTTLE SIZE	BOTTLE TYPE	PRESERVATIVE CODE;	ENI	(NEA USE ONLY)	148		F
DATETIME		COMPANY	PRINTED NAME	TORK TORK	RELINQUISHED BY	Z							\(\frac{\}{\}\)	<b>A A</b>													ENTER ANALYSIS AND METHOD NUMBER REQUESTED	Additional charges incurred for dispo	OISPOSAL BY NO ARCHIVAL BY NO	RETURN TO CLIENT	DISPOSAL REQUIREMENTS (To be filled in by Client)
DATE/TIME	COMPANY		PAINTED NAME	SIGNATURE	RECEIVED BY								2	>		REMARKS		8 - Other	/ 7 · NaHSO4	/ 6 · MeOH	5 - Zn Acetate	/ / 3-H2SO4	/ 2 - HNO3	1- HCL	0 - NONE	PRESERVATIVE VE	MBER REQUESTED	Additional charges incurred for disposal (if hazardous) or archival Call for details	DISPOSAL BY NORTHEAST ANALYTICAL ARCHIVAL BY NORTHEAST ANALYTICAL	TN	(To be filled in by Client)

6 WIDMINGOC FORMALS (Revised March 2001)

Hole After the laberatory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address shown.

	(Signature)	SAMPLERS (Signature)				•		хпk сору Io валтрівг	yellow copy to lab, pink copy to sampler	White copy return	
	7	7.07	1080 ICH	1912-4		disal huce					
		Remarks	Date / Time		у 	Received for Laboratory by (Signature)	Date / Time		(Oigimaic)		10
Received by (Signature)	Date / Time	ure)	by (Signature)	Relinquished by		Heceived by (Signature)	. :		(Sometime)		,
Received by (Signature)	Date / Time	rre)	by (Signature)	Relinquished by		1	`	12/	Sonature		
							- I	- -	(Sionature)	Relinquished by	
											<del></del>
											<del></del>
						AE01513	FISH		04/20	SN/6-42-101X12 4/20	10
						ME 02522	FISH		, 07/h	07/4 STROT-HOLD	ĺ₹ -
				(		" AE0252]	¥		oc/ho	MEHI-LIDIA	ai Z
			\ \ \		1	The Arassa		X	Yw	TB-5	) ī · · ·
					_	AFO3510	722	X	tho		· · ·
PCB					,	AE02517	7/2	<b>X X</b>	F 7	11-c+3/15	1 . 2
האייייייייייייייייייייייייייייייייייייי	, , , , , , , , , , , , , , , , , , ,				NU COI	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	SAMPLE [ Include Matrix a	COMP	DATE TIME	SAMPLE	
ANALYSES REQUESTED	ANALYSE				MBER NTAINE	70	PROJECT MANAGER	PF	NINE SIVE	OCIENI HEPHESEMIAIIVE	-
01040103					OF ERS	Eppo 3		0	PROJECT CONTACT	Ch.Sofrous	
(014) 373 3390	   	\$\\0\/E\	/ B / B / C			たらつ・	L. Converge Approved	ly	Fish Stru	m	
ERM-SOUTHEAST, INC 7108 Crossroads Blvd Sulla 228 Rennwood TN 37027		May 3 of 3		Y RECORU	CUSTOD	CHAIN OF CUSTODY RECORD	the yellow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address shown.	e copy and express	ab lies Send the white	ne yellow copy for the L ddress shown	7 8 ⇒
								· · · · · · · · · · · · · · · · · · ·	ary has recolved sample	role Allor the laborate	2

Note All of the haboratory has received sairties and signed the Chain of Custody Record, retain the yellow copy for the Lab liles. Send the white copy and express ticket to ERM Southeast at the address shown.

Relinquished by (Signature) Relinquished by (Signature) 51642-11 \* SV642-10/x 51642-07 54642-65 54642-03 Relinquished by (Signature SU642-12. SV642-18 JV642-14 + + 169-249MS 54692-08 SVLD-OF SV642-04x 516-t2-01-8 PROJECT NAME 21/242-01 24415 CLIENT REPRESENTATIVE SAMPLE DATE PROJECT COMPACE TIME СОМР 123/01/1700 PROJECT MANAGER PROJECT LOGA Dale / Time (Include Matrix and Point of Sample) Date / Time Date / Time SAMPLE DESCRIPTION 16/5 373 338 Z empon 50 (Signature) Received by (Signature) Received for Laboratory by Received by (Signature) At 02516 AE02512 AE 02502 AEOJ 515 ME02514 AE02513 AE02510 AE02509 AE02508 NE02507 AEO2506 AF02505 AE12503 AEO2504 CHAIN OF CUSTODY RECORD NUMBER OF CONTAINERS 4-24-11 1030 Relinquished by (Signature) Relinquished by (Signature) Page 2083 7.0 h Date / Time Date / Time ANALYSES REQUESTED ERM-SOUTHEAST, INC 7106 Crossroads Blvd Sulte 228 Brentwood, TN 37027 01040103 Received by (Signature) Received by (Signature) (615) 373 3350

White copy return

yellow copy to tab pink copy to sampler

Note After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM-Southeast at the address shown.

SV535-24x 51641-PX Relinquished by (Signature) Relinquished by. (Signature) SUS38-OIR 54535-22 PROJECT NAME 1,86 Relingifished by (Signature 51641-20 5444-18x SV535-23 PROJECJ NO 7 5444-15 SN236201 HUB CLIENT REPRESENTATION SN641-1. 5464-16 SULHFIR SV641-12 71-149115 15-5851 SAMPLE ID DATE PROJECT CONTACT TIME COMP **GRAB** PROJECT MANAGER PROJECT LOCKTON SC SAMPLE DESCRIPTION (Include Matrix and Point of Sample) 101 12/70 U Date / Time . Date / Time Dake / Time 16 15 373 338 C Received for Laboratory by (Signature) Received by (Signature) Received by (Signature) AFO2496 AEO2487 14602497 NE 02495 AE02493 AE02500 AE02498 PE 02494 ME02492 AEO2491 AE02499 AE 62490 AE02489 AE 02488 AE02501 CHAIN OF CUSTODY RECORD NUMBER OF CONTAINERS Relinquished by (Signature) Relinquished by (Signature) Page 1 of 3 4.0% Date / Time Date / Time Replaces AND REMARKS Brentwood, TN 37027 01040103 Received by (Signature) Received by (Signature) SV535-01 (615) 373-3350

White copy

RM, yellow copy to lab, pink copy to sampler

4-24-01 1030

SAMPLERS (Signature)

ERM-SOUTHEAST, INC. 7106 Crossroads Blvd Sulte 228

Note. After the taboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab lifes. Send the white copy and express ticket to ERM Southeast at the address shown.

Subyl-on Relinquished by (Signature) Relinquished by (Signature) 11-11ANS Relinquished by (Signally JV106-20 PROJECT NO PROJECT NAME TO HAGIO-IFANS 30-11-21 C 151-901 NC 11535-11MP SV 535-20UP RheBlkog CLIENT REPRESENTATIVE 1.18K-04 OF-11-971S SAMPLE 10 DATE PROJECT CONTACT TIME COMP X GRAB PROJECT MANAGER PROJECT/LÓCATION (Include Matrix and Point of Sample) Date / Time Date / Time SAMPLE DESCRIPTION 15 57 55 55 D Received by \(\frac{1}{2}\)Signature) Received for Laboratory by Received by (Signature) Kinac. Rich AEDZY85 AED 2486 11ED24843 AEU 14882 AEDZYTY AEU247XI ACOLY8X HEN247XE ALTO 24800TA 4EU247X8 AED 24840 CHAIN OF CUSTODY RECORD 11/30 A Relinquished by (Signature) NUMBER OF CONTAINERS 4230/ 800 Relinquished by (Signature) Date / Time Remarks Date / Time Date / Time ANALYSES REQUESTED Brentwood, TN 37027 ERM-SOUTHEAST, INC **Sulte 228** 01040100 Received by (Signature) Received by (Signature) (615) 373 3350

White copy return

yellow copy to lab, pink copy to sampler

Note. Alter the Jaboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab like. Send the white copy and express ticket to ERM Southeast at the address shown.

White copy return Helinquished by (Signature) Relinquished by (Signature) Relinquished by (Signature) S0-11-915 SV535-18 89-119NS SV641-02 5755-19 SV535-15 PROJECT NAME 70-117NC 31-25515 SWH-DT 5-1ENS CLIENT REPRESENTATION PROJECTNO. POFIENS U-585/J 2855AS 21-585AS Sussep SAMPLE DATE ナシス jellow copy to lab, pink copy to sample: PROJECT CONTACT TIME n porta COMP GRAB マンノ PROJECT MANAGER PROJECT/LOCATION ON Daje / Time Date / Time (Include Matrix and Point of Sample) Date / Time ンプノ 1600 SAMPLE DESCRIPTION 1525 475 519 Received by (Signature) Received for Laboratory by Receyved by (Signature) AED247X4 AEU24743 AEDIHLES 8 HEUZHLX 7 AEDZYLOX O Fusa C. Rice TE02478 2 AEDJYTA G RED24676 AFD24643 HED 2472 45024×170 AED24625 AFOZYLY AF7124632 AED2462 CHAIN OF CUSTODY RECORD NUMBER OF 0% CONTAINERS Relinquished by (Signature) 4-23-01 80D Relinquished by (Signature) Date / Time Ç ار ما مار مارستان مارستان 022 22 B ..... SAMPLERS (Signature) Date / Time Date / Time 4*01*0 PICATE ANALYSES REQUESTED ERM SOUTHEAST, INC.
7106 Crossroads Blwd
Sulle 226
Roans Brentwood, TN 37027 01040100 Received by Received by (Signature) (Signature) (615) 373 3350

Note. Altor the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the tab files. Send the white copy and express ticket to ERM-Southeast at the address shown

NUMBERINE  NUMBERINE  NUMBERINE  A B C D E F G H  O I D Y D D  ANALYSES REQUESTED  ANALYSES REQUESTED  AND REMARKS  NUMBERINE  NUMBERINE  ANALYSES REQUESTED  AND REMARKS  NUMBERINE  Date I time  Received by (Signature)	Signature)	SAMPLERS (Signature)		White copy leturn to ellow copy to lab, pink copy to sampler
A B C D E / F G H 1 O DY D D DIE / Time Received by (Signature)  Date / Time Remarks  Provided Reservation Bind Submandaria B		186-1	Chù	
A B C D E F G H 1   ANALYSES REQUESTED AND REMARKS  AND REMARKS  AND REMARKS  Date / Time Received by (Signature)  Date / Time Received by (Signature)  Date / Time Received by (Signature)			Date / time   Received for Laboratory by (Signature)	in the state of th
A B C D E F G H 1  A B C D E F G H 1  ANALYSES REQUESTED  AND REMARKS  AND REMARKS  AND REMARKS  Date 1 time Received by (Signature)  Date 1 time Received by (Signature)  Date 1 time Received by (Signature)		-		Helinguished by (Sanatura)
A B C D E F G H 1  ANALYSES REQUESTED AND REMARKS  AND REMARKS  AND REMARKS  Date 1 Ime  Pacenyed by (Signature)  Date 1 Ime  Received by (Signature)	/ Time Received by	elinquished by (Signature)	+	Helinquished by (Signature)
A B C D E F G H 1  ANALYSES REQUESTED ANALYSES REQUESTED AND REMARKS  Hold Withe M on C  Hold Received by (Signature)  Date / Ime Received by (Signature)		-	2901 (000 /hobe lifted) ypilon	Starte Om 4
A B C D E F G H 1  ANALYSES REQUESTED AND REMARKS  AND REMARKS  AND REMARKS  AND REMARKS  AND REMARKS  AND REMARKS  AND REMARKS  AND REMARKS  AND REMARKS	/Time	- 1	Date / Time   Received by (Signature) // 30400	(Signatory)
A B C D E F G H 1  ANALYSES REQUESTED AND REMARKS  Hold AND REMARKS  Dup 11 cate  Dup 11 cate	7,		AEDAYBASI	
A B C D E F G H 1 O 104010 C BHOMMOOD, TN 37027  A B C D E F G H 1  ANALYSES REQUESTED  AND REMARKS  DAP 11 CA +C		AED24548 1	2025210	
A B C: D E / F G H / 1  ANALYSES REQUESTED ANALYSES REQUESTED AND REMARKS  To Crossroads Bind Sults 228  Brannwood, TN 37027  A B C: D E / F G H / 1  ANALYSES REQUESTED AND REMARKS  To I d WYITCH ON CU  Dap 11 cate  Dap 11 cate			AED24587 1	SU535-9
A B C D E F G H 1  ANALYSES REQUESTED AND REMARKS  THO CONTRAST, AND REMARKS  TO 104010  ANALYSES REQUESTED AND REMARKS  TO 104010			AE024576	0.78.20
A B C D E F G H 1  ANALYSES REQUESTED AND REMARKS  THO CONTRACT  AND REMARKS  DAP 1 CA + C  DAP 1 CA			MEU245\$5 1	0.75°/
A B C D E F G H 1 O 104010 C ANALYSES REQUESTED AND REMARKS  THO I D WITHEM ON CU			AED24554	20232-6
A B C D E F G H 1 O 104010 C Business Bird Sulls 228  Brannwood, TN 37027  A NALYSES REQUESTED AND REMARKS  HOLD WITHCH ON CU	CAPICE TO		AED24543	SN35-5
A B C D E F G H 1 O 10401D C  ANALYSES REQUESTED AND REMARKS  Hold Written on Cu	ファー		AE124582 1	SN232-A
A B C D E F G H I O 104010 C ANALYSES REQUESTED AND REMARKS  Hold ACC AS PER CU		1	MED224 AE0245 (	21/38-3
A B C D E F G H I O 104010 C ANALYSES REQUESTED AND REMARKS  Hold WYIHCK ON CU		-	AE1243150 1	S 4535. 2
A B C D E F G H I O 104010 C  ANALYSES REQUESTED AND REMARKS  AND REMARKS  WYITHCK ON CU	6		AE0245049 1	JV5227
A B C D E F G H I O 104010 C			8×111203V	- 107-100 - 100 -
A B C D E F G H I O 104010 C  ANALYSES REQUESTED AND REMARKS			811111111111111111111111111111111111111	
A B C D E F G H I  ANALYSES REQUESTED AND REMARKS	<i>P</i>	<del> </del>	HEWHI)	Day of the second of the secon
A B C D E F G H 1  ANALYSES REQUESTED  AND REMARKS			FISK ARXIVE	1/17/1/
A B C D E F G H I  ANALYSES REQUESTED AND REMARKS				
A B C D E F G H I O 104010 C  ANALYSES REQUESTED	AND REMARKS		SAMPLE DESCRIPTION	SAMPLE DATE TIME OF GRAD
A B C D E F G H 1 01040100	ANALYSES REQUESTED		PROJECT MANAGER	PE PER PER PER PER PER PER PER PER PER P
A B C D E F G H / 1	0104010 / / /		NO 273350 6	DIECT CONTACT OF
Page 1063  Benimood Tiv 37027	/G/H/I	/B/C/D/E/	PROJECT/COCKNOWS IN SC	Fight Study
2108 Conservate Blad		Page	CHAIN OF CUSTODY RECORD	
	ERM SOUTHEAST, INC.		ilder of Custody Hecold, relain	the yellow copy for the Lab like. Send the white copy and express ticket to ERM, Southeast at the address shown

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC 7106 Crossroads Blvd Suite 228 Brentwood, TN 37027

RM, yellow copy to lab, pink copy to sampler		Relinquished by (Signature)	neimquisned by (Signature)	Att ROM				2012 - 1201C	1500	7003	20012 May	SDOIL 1410	SMO. WO		SD-009 1550	50-008 1 135	SD-807 4/25/4 1700 X	SAMPLE DATE TIME MP CO GRAB	CLIENT REPRESENTATIVE	PROJECT PROJECT PONTACT	PROJECT NAME FISH Study
sampler		Date / Time R	Date / Time R	Dale / Time Re		_		Ť									Sedimen	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	PROJECT MANAGER	Orr The	PROJECT LOCATION
	(Signature) CR Ci	eceived for Laboratory by	Received by (Signature)	Received by (Signature)			 	NE 02797	AE12796	NE02795	AE02794	NE02193	AE02792	AE02791	AFAJTAD	- +	CR + AFN 178X		-	ONE NO 33350	Someon SC
	4274 1030		Relinquished by (Signature)	Relinquished by (Signature)				2	7 11	7	2				1	1	2 11	CON	ABER	RS	B/ A/B
SAMPLERS (Signature)	Remarks . 40	-	Date	ature) Date / Time			/														/c/b/E/F/G/H/
			Time Received by (Signature)	Time Received by (Signature)			1										10. 17700	AND REMARKS	ANALYSES REQUESTED	10110101	Brentwood, TN 37027 (615) 373-3350

Note: After the faboratory has received samples and signed the Chain of Custody Record retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address shown.

Page 10/3

ERM SOUTHEAST, INC 7106 Crossroads Bird Sulte 228

	SAMPLERS (Signature)	SAMPLERS				to sampler	rellow copy to lab, pink copy to sampler	rellow copy	White copy return is
	7.000		11-19-01 1100	Luser C. Rice					·
		Remarks	Date / Time	Acceived for Laboratory by (Signature)	/ Time	Date		(Signature	Helinquished by (Signature)
Received by (Signature)	Date / Time Received b	"e)	Relinquished by (Signature)	Received by (Signature)	/ Time	Date		Cognature	
9					1000	100	M	1	- X TANK
Received by (Signature)		(e)	Relinquished by (Signature)	Received by (Signaturo)	/ Time	Date	7,	(Signature,	neiinquisned by
X) see	written on COC ax				\	7			DV106 1
7				AE 02310 1	F	<u> </u>			71100 P
				AE01309 /	P				1 - 401/11C
=	Drolliate			DE 112308 1	-	1		-	1/10/2-4
	+ C) + C			AEOLBUT /	A				15-90115
	T .			MEUL306	K	7		-	2-90/TK
				AE02305 /		7		-	7-201/K
				AEO23OU 1	+			$\downarrow$	2-2017E
				AE 02303		X			7-10105
	7).0/ - +			AEOL302				-	3-101-6
				(1E023D1 /		\tau			JV107-5x
				MEDIBOD ,		7		-	SV107-4x
				AED2299		1		-	SMOD3,
				AE02298 1	,		X	-	2-tom
	121215			AE02297 1	1,4,6		×	1/1/4	SV107-1x
				NI	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	GRAE	COMF	DATE	JD
	ANALYSES REQUESTED AND REMARKS			JMBE			_		
2800	/// 01040082			23350 OF	PROJECT MANAGER	11,	PHOJECT CONTACT	ENTATIVE	CLIENT REPRESENTATIVE
	/F/G/H/1/	C/D/E	/A/B/C	n 50	78	PHOJECT	th My	100 m	מונים והכד אום
d 7 (615) 373 3350	Suite 228 Sentwood, TN 37027	0	Y RECORD	CHAIN OF CUSTODY RE					PROJECT NAME

Aftor the fatouring laboratory has received samples and signed the Chain of Custody Record, relain the yellow copy for the Lab files. Send the white copy and express tricket to ERM Southeast at the address shown.

Helinquished by (Signature) White copy return Relinquished by (Signature) Relinquished by (Signature) 51526 N-9011 5 V106-12 54532-1 SW126-11 PROJECT NAME Find Stade 51106-9 26535-4 SV100-15 51110b-CLIENT REPRESENTATIVE \_\_\_\_ PROJECT NO 50116-10 515525 2-25-5A V106-13 5 VICG-SAMPLE 10 N235-2 DATE PROJECT CONTACT Or 1 TIME  $\succ$ COMP X  $\times$  $\prec$  $\succ$ **GRAB**  $\prec$ PROJECT MANAGER PROJECT LOCATION SON SC Daje / Time (Include Matrix and Point of Sample) Date / Time Date / Time ナーのて SAMPLE DESCRIPTION (Signature) This C. Rice Received by (Signature) Received by (Signature) Received for Laboratory by AEOL311 Musa C. Ruce AE 01325 AE OL324 AE 02323 AE 02320 AEOL312 AE 02321 AE OLSZL ME O2313 AFOZ318 AE OLBIL MEOZZIS AE OZZIG At 02317 AEOZZILO CHAIN OF CUSTODY RECORD NUMBER OF CONTAINERS 11-10-1-1100 Relinquished by (Signature) Relinquished by (Signature) Date / Time Pack of of 5 SAMPLERS (Signature) Remarks 3,3°C Date / Time Date / Time ANALYSES REQUESTED ERM-SOUTHEAST, INC 7106 Crossroads Blvd Sulta 228 Brentwood, TN 37027 01040082 Received by (Signature) Received by (Signature) (615) 373 3350

yellow copy to lab pink copy to sampler

Note: Alter the laboratory has received samples and signed the Chain of Custody Record, relain the yellow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address shown.

O-LI-11 HANDH-MOUNCHILL AIRT- YEGAS AND LUBYS3Z-SOUP CHSY107-LOWP White copy return to Relinquished by (Signature) Relinquished by (Signature) PROJECT NO Relinquished by (Signature) 372575 21532-13× CLIENT REPRESENTATIVE PROJECT NAME RINSE PIK-SV532-12× 31537-5 ASTA 1.0 BK-1 Zwe BIK-SAMPLE ID 1-265N 125.5A DATE pllow copy to lab pink copy to sampler PROJECT CONTACT & TIME COMP < **>**< × GRAB PROJECT MANAGER PROJECT LOCATION (Include Matrix and Point of Sample) Date / Time Date / Time Date / Time 1 SAMPLE DESCRIPTION FISH 7,5 4 TELEPHONE NO Received by (Signature) Received for Laboratory by φ Received by (Signature) Twac.hu V/16 02331 AE BRITA nt 07329 AE 02528 DE 02327 ME 02:330 ME 02333 AE 112326 PE 02339 AF 02338 NE 01332 NE 02331 At 02331 At 02336 ME OLBS CHAIN OF CUSTODY RECORD NUMBER OF CONTAINERS Relinquished by (Signature) Relinquished by (Signature) Date / Time 5, 40G 2400 H SAMPLERS (Signature) Remarks 3.3% LOW HOLD LON LON LONG \*\*\* HOLD - NOCCESSIVE LUIC Date / Time Date / Time Sample arollyzed - der Sample analyzed SCR ANALYSES REQUESTED ERM-SOUTHEAST, INC 7108 Crossroads Blvd Suite 228 Brentwood, TN 37027 Received by (Signature) Received by (Signature) 01040082 (615) 373 3350

SAMPLING FIRM (1) 5-373-3350 SAMPLED BY (Please Print) RESULTS TO BE FAXED RESULTS TO BE E-MAILED COMPANY CLIENT (REPORTS TO BE SENT TO) DATECTIME SIGNATURE RECEIVED BROKEN OR LEAKING RINTED NAME MBIENT OR CHILLED ERM JiM ORR 2190 Technology Drive, Schenectady, NY 12308 Telephone (518) 346-4592 Fax (518) 381-6055 NORTHEAST ANALYTICAL, INC www nealab com SAMPLE ID CHAIN OF CUSTODY RECORD E-MAIL ADDRESS TEMP 7-17-DATE SIGNATURE DATE/TIME PRINTED NAME OMPANY Information @nealab com Fax (518) 381-6055 TIME RECEIVED BY COC DISCREPANCIES PROJECT#/PROJECT NAME REQUIRED TURN AROUND TIME FISH STUDY, LOCATION (CITY/STATE) ADDRESS FLSH NAME OF COURIER (IF USED) COC TAPE MATRIX CLEMSIN, SC SIGNATURE DATE/TIME PRINTED NAME GRAB/ COMP z LRF# PAGE 4 OF 4 RELINQUISHED BY AEBZY8Y (NEA USE ONLY) SAMPLE ID 61040082 (NEA USE ONLY) DATE/TIME PROPERLY PRESERVED SIGNATURE RECVD WII HOLDING TIMES RINTED NAME PRESERVATIVE CODE: NUMBER OF CONTAINERS BOTTLE TYPE BOTTLE SIZE  $\times$ RECEIVED BY ENTER ANALYSIS AND METHOD NUMBER REQUESTED DISPOSAL REQUIREMENTS (To be filled in by Client) Additional charges incurred for disposal (if hazardous) or archival Call for detalls COMPANY PRINTED NAME RETURN TO CLIENT DISPOSAL BY NORTHEAST ANALYTICAL ARCHIVAL BY NORTHEAST ANALYTICAL RELINQUISHED BY OTHER NOTES DATE/TIME Sample was left PRINTED NAME SIGNATURE off original LOC. REMARKS RECEIVED BY 1 - HCL 0 - NONE 5 - Zn Acetate 2 - HNO3 PRESERVATIVE KEY 7 - NaHSO4 6 - MeOH 4 - NaOH 3 - H2SO4 8 - Other

S WIDMINCOC FORM XLS (Revised March 2001)

Note After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM-Southeast at the address shown

CHAIN OF CUSTODY RECORD

Page 1 of 3

ERM-SOUTHEAST, INC 7106 Crossroads Blvd Sulte 228

51641-A PROJECT NO Relinquished by (Signature) Relinquished by (Signature) Relinguished by (Signature PROJECT NAME L, 84 CLIENT REPRESENTATIVE 51641-20 81-149NS 122-55/KS 12-58515 SV641-16 SV536-018 F2-559AS SV555-23 4 02385NS 57641-1 5444-15 21-HAVS 5VB41-13 HI-1491KS SAMPLE ID Anna DATE PROJECT CONTACT TIME COMP GRAB PROJECT MANAGER PROJECT LOCKTON SC (Include Matrix and Point of Sample) 111 6/2010 Date / Time Date / Time Cr TELEPHONE NO 3380 SAMPLE DESCRIPTION 8 K AEO2487 "AE02500 Received by (Signature) AE02497 Received by (Signature) Received for Laboratory by AE02496 AE 02488 (Signature) AFOZH99 AE02495 AE DILY 94 ME02493 AE02498 AEO2491 AE 02490 ME02492 AE02501 AE 02489 NUMBER OF CONTAINERS Relinquished by (Signature) Relinquished by (Signature) Remarks 4.0°C Date / Time Date / Time Keplaces ANALYSES REQUESTED Brentwood, TN 37027 01040103 Received by (Signature) Received by (Signature) 0 (615) 373-3350

PRM, yellow copy to lab, pink copy to sampler

Note. After the laboratory has received sarriples and signed the Chain of Custody Record, retain the yellow copy for the Lab lifes. Send the white copy and express ticket to ERM Southeast at the address shown

CHAIN OF CUSTODY RECORD

Page 2083

Sulte 228

7106 Crossroads Blvd

SV642-12 Relinquished by (Signature) Relinquished by (Signature) Relinquished by (Signature) 51642-1 54642-14 511-24918 21/642-10 18-549MS 54692-08 54642-07 SV642-06 SV642-05 PROJECT NAME 51642-04 54642-03 10-21-91S CLIENT REPRESENTATIVE 216-24911 544412 SAMPLE Ine RUM DATE PROJECT COMTAC TIME **GRAB** PROJECT MANAGER Date / Time PROJECT LOGATION SC (Include Matrix and Point of Sample) Date / Time Date / Time SAMPLE DESCRIPTION 16/5 373 3362 Received by (Signature) ME02514 Received for Laboratory by Received by (Signature) At 02516 AEO2515 (Signature) AE02513 Luse Ci Rice AE02512 ME02510 AE02505 AE02509 AEO251, AE02508 AE02504 4.0 NE02507 AE12503 AEO2506 AE 12502 NUMBER OF CONTAINERS Relinquished by (Signature) Relinquished by (Signature) Remarks 7.0°C Date / Time Date / Time ANALYSES REQUESTED Brentwood, TN 37027 01040103 Received by (Signature) Received by (Signature) (615) 373-3350

White copy return

yellow copy to tab pink copy to sample:

Hote Allor the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address shown

White copy return ( yellow copy to lab pink copy to sampler		(antique) of [(a)	Religionshoot by Constant	Relinquished by (Signature)	- 1		-			SV642-10/X194/20	SV641-2011/2 4/20	SV641-MURPH20	TB-5 42	4 .	54642-16 4/20 X	51642/5 Hage, X	SAMPLE DATE TIME OMP	CLIENT HEPHELENINE	PROJECTION PROJECT CONTACT	THOSECI NAME FISH STURY	address shown
rpler	disal Ruie	Date / Time   Received for Laboratory by (Signature)		170ò		2.				FISH AE02523	FISH ME02522	FISH AEU2521	Water AFO2520	water AE02519	DAN AE02518	Fish AE02517	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	PROJECT MANAGER CT.	Jelephone no 75 50 6	25 Lethology Sto	
SAMPLERS (Signature)	7.074 OF QI 1915-H	Date / Time Remarks	Relinquished by (Signature)  Date / Time Received	Relinquished by (Signature)  Date / Time Received by													CON	ANALYSES REQUESTED	ERS	/D/E/F/G/H/I	CHAIN OF CUSTODY RECORD (100) 3 02 3 Brentwood, TN 37027
-			Received by (Signature)	by (Signature)											7	ムム	v	STED	01040103		inc Sivid 027 (615) 373 3350

Note After the laboratory tras received samples and signed the Chain of Custody Record, relain the yellow copy for the Lab fles. Send the white copy and sepress ticket to ERM Southeast at the address shown. PROJECT NAME PROJECJ NO-Figh Stad PROJECT CONTACT PROJECT/1968/9/5m 5C CHAIN OF CUSTODY RECORD

 $\mathcal{C}_{\mathcal{C}}$ 

Sylon-19

22-1011S

91-101/S

51107-18

4/19/61

SAMPLE ID

DATE

TIME

COMP GRAB CLIENT REPRESENTATIVE

PROJECT MANAGER

SV535-3

h-585115

S. 7535. 2

JV5427

ERM-SOUTHEAST, INC 7106 Crossroads Blvd Sulta 228 Brentwood, TN 37027

(615) 373 3350

ANALYSES REQUESTED AND REMARKS 01040100

	1	Marc. Rici	Heceived for Laboratory by (Signature)		Date / Time Received by (Signature)	(oco hot Tuffell 4		AED24598	AED24587	JEO245X6	AEU245\$5	AED24554	AE124543	AE124582	MEDZY AEDZYSAI	AE0245150	AE0242049	AFD24HX8	NE021/48	AEWYUT	Fish ABOXY46	SAMPLE DESCRIPTION:	JMBE	TELEPHONE NO 33550
		N-2371 800	Dale / Time		Relinquished I	(1) SOM Connidurance by (Signature)	3															CC	DWREI	NERS
-	SAMPLERS	800	Time Remarks	,-	Relinquished by (Signature)	oy (Signature)																		
o (orginature)					Date / Time	Date / Time	Hold						TAP TO A TO	フシート		Duo I cat	•	#, 12		PI'H			ANALYSE	
					Received by (Signature)	Received by (Signature)										9			WVITTEMEN CUC 2XX				ANALYSES REQUESTED AND REMARKS	00104010

101385NS

01535-11

52532-9

S1535-7

25254

9-355113 S1232-5

White copy return

Relinquished by (Signature)

Relinquished by (Signature)

· .

Relinquished by (Signaror)

yellow copy to lab, pink copy to sampler

Note After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab like. Send the white copy and express ticket to ERM Southeast at the address shown.

CHAIN OF CUSTODY RECORD PORT 2 0 3

Sulta 228

ERM-SOUTHEAST, INC 7108 Crossroads Blvd

Brentwood, TN 37027

(615) 373 3350

White copy return to Helinquished by (Signature) Relinquished by (Signature) SUG-11-07 FO-11915 SV641-02 8411-83 S1-5851S Relinquished by (Signature) 61-255NS 1-555 KS PROJECT NAME SN641-02 Suful-01 3123215 CLIENT REPRESENTATIME Constrond SVHILLE 2555NS SNS32-18 21-555NS 51838mb SAMPLE DATE ナシス pilow copy to lab, pink copy to sample: PROJECT CONTACT TIME Two u COMP GRAB るろうくく PROJECT MANAGER PROJECT/LOCATION SC (Include Matrix and Point of Sample) Date / Time Date / Time : Daje / Time とがん SAMPLE DESCRIPTION. 1600 1ELEPHONE NO. Received by (Signature) Received for Laboratory by Receyved by (Signatura) AEU24687 KED24676 AEDZYLON 8 RusaChrie 15024 N 70 1E024782 AFDIHIZ AEU24743 477777 AED24706 AED24625 AEDZYLLYY AEO2462 HEDZYLOY O AFDZYLA 3 AF7124632 1//20 Adelinquished by (Signature) NUMBER OF CONTAINERS 4-23-01 800 Relinquished by (Signature) Dale / Time SAMPLERS (Signature) Remarks Date / Time 日の口 To Date / Time ANALYSES REQUESTED 01040100 Received by (Signature) Received by (Signature)

Note. After the laboratory has received samples and signed the Chain of Custody Record, retain the reflew copy for the Lab files. Send the while copy and express ticket to ERM Southeast at the address shown.

ERM-SOUTHEAST, INC 7106 Crossroads Blvd

Relinquished, by (Signature) Relinquished by (Signature) Relinquished by 31535-12H PROJECT NO MOIO-INAM OFTHAMS PROJECT NAME TO SY \$235-2019 80-11-2NS CLIENT REPRESENTATIVE 1-10B/K-04 11-1191VS 51641-SA Rneflkoy SAMPLE ID (Signalye DATE PROJECT CONT 6€T TIME COMP GRAB PROJECT MANAGER PROJECT/(6) SAMPLE DESCRIPTION (Include Matrix and Point of Sample) Date / Time -Date / Time ナズ 1615 57 55 55 D Received by (Signature) Received by (Signature) AEV 24882 4ED24843 AED247X 160247X HEU24705 AED 248X AEO 2480-79 HE0247×8 150248X CHAIN OF CUSTODY RECORD 11/30 A. Relinquished by (Signature) NUMBER OF CONTAINERS Relinquished by (Signature) Dale / Time Date / Time ANALYSES REQUESTED Brentwood, TN 37027 Sulte 228 01040100 Received by (Signature) Received by (Signature) (615) 373-3350

White copy retu

M yellow copy to lab, pink copy to sampler

Received for Laboratory by

42301 800

SAMPLERS

(Signature)

Dale / Time

Remarks

Note: After the faboratory has received sarrules and signed the Chain of Custody Record, retain the yellow copy for the Lab likes. Send the white copy and express licket to ERM Southeast at the address shown.

17-901/J N-25515 T-tong Relinquished by (Signature) Relinquished by (Signature) Relinquished by (Signature) JV532-16 81-91115 El on Caroud PROJECT NAME -7625 - V SV107-1 71-to11 54107-10 CLIENT REPRESENTATIVE 11-9017C 71-225AC SU107-13 SV107-1 V101-1 V107-16 SAMPLE ID N.Come DATE PROJECT CONTAC TIME COMP 7 X  $\searrow$ ヾ GRAB  $\times$ PROJECT MANAGER PROJECT LOCATION SAMPLE DESCRIPTION (Include Matrix and Point of Sample) Date / Time Date / Time Dale / Time TELEBHONE NO Received for Laboratory by Received by (Signature) Received by (Signature) (Signature) AFUZUZU AE D2425 AE OLUZ3 AE-WHZZ KE 02 420 At 62-127 DF 171126 1602421 AE 02-119 AF 124118 DE 112417 AE 62428 AEU2416 AFOZULIS Loa ('Rucu アンイング 7 CHAIN OF CUSTODY RECORD NUMBER OF CONTAINERS í Relinquished by (Signature) 4-20-01 1030 Relinquished by (Signature) Date / Time Paye lof3 Remarks 7,1,5 Date / Time Date / Time ANALYSES REQUESTED
AND REMARKS ERM SOUTHEAST, INC. 7106 Crossroads Blvd Sulta 228 Brentwood, TN 37027 66004010 Received by (Signature) Received by (Signature) (615) 373 3350

White copy return

jellow copy to labi pink copy to sampler

SAMPLERS (Signature)

Note. After the laboratory has received samples and aigned the Chain of Custody Record, relain the yellow copy for the Lab like. Send the white copy and express ticket to ERM Southeast at the address shown.

Relinquished by (Signature) Relinquished by (Signature) 22-2516 PROJECT NO Relinquished by (Signature) SV572-20 CLIENT REPRESENTATIVE PROJECT NAME TURNE 54532-2 25/532-7-1532-25 545350 V532-23 DV531-16 1537-19 1532-18 SAMPLE ID Tisk Street DATE PROJECT CONTACT TIME COMP  $\times$  $\times$  $\times$ GRAB ンなく PROJECT MANAGER PROJECT LOCATION/1507 50 (Include Matrix and Point of Sample) Date / Time Date / Time 10001-100 SAMPLE DESCRIPTION / Time WaterAEDIUVI LETE BHONE NO 2322 Comp. M. Acceived for Laboratory by (Signature) Received by (Signature) Received by (Signature) AE 02439 AEODYYO AE02437 AE62438 AE02436 AEO2435 AEO2434 AE 02433 AE02430 RE02432 AE 024/31 Kusal its ce CHAIN OF CUSTODY RECORD 4 5 7 4 5 NUMBER OF CONTAINERS 41 4-20-01 1030 Relinquished by (Signature) Relinquished by (Signature) Date / Time Dage 2 of 3 Remarks Dale / Time Date / Time ANALYSES REQUESTED ERM-SOUTHEAST, INC 7106 Crossroads Blvd Bullis 228 Brentwood, TN 37027 6500 h010 Received by (Signature) Received by (Signature) ς, Í (615) 373 3350

White copy return to

rellow copy to lab pink copy to sampler

SAMPLERS (Signature)

RESULTS TO BE FAXED SAMPLING FIRM SAMPLED BY (Please Print) RECEIVED BROKEN OR LEAKING RESULTS TO BE E-MAILED CLIENT (REPORTS TO BE SENT TO) DATE/TIME SIGNATURE AMBJENT OR CHILLED SV532-24 DUP CMPANY SV 107-13 DUP FRIM 615-373-3350 ROJECT MANAGER RINTED NAME Jin OM 1,0vY ERWISE 2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www nealab com information @nealab com N532-14 DWP NORTHEAST ANALYTICAL, INC. SAMPLE ID RELINQUISHED BY CHAIN OF CUSTODY RECORD 10.814 FAX# E-MAIL ADDRESS 4-18-2) TEMP 4-18-0 DATE DATECTIME PRINTED NAME SIGNATURE 5.1% z RECEIVED BY TIME PROJECT MIPROJECT NAME
FISH STUDY
LOCATION (CITY/STATE) ADDRESS COC DISCREPANCIES COC TAPE REQUIRED TURN AROUND TIME FISH NAME OF COURIER (IF USED) FISH 4517 CLEMSON, SC MATRIX SIS SIGNATURE DATE/TIME PRINTED NAME COMP GRAB/ C z PAGE 3 of 3AEUZYYS RELINGUISHED BY AEU2444 AEO2443 (NEA USE ONLY) SAMPLE ID 01040099 (NEA USE ONLY) RECVD WII HOLDING TIMES PROPERLY PRESERVED SIGNATURE PRINTED NAME PRESERVATIVE CODE! NUMBER OF CONTAINERS BOTTLE TYPE BOTTLE SIZE R Cocs ENTER ANALYSIS AND METHOD NUMBER REQUESTED DISPOSAL REQUIREMENTS (To be filled in by Client) Additional charges incurred for disposal (if hazardous) or archival. Call for details z PRINTED NAME SIGNATURE z RETURN TO CLIENT DISPOSAL BY NORTHEAST ANALYTICAL ARCHIVAL BY NORTHEAST ANALYTICAL RELINQUISHED BY OTHER NOTES DATE/TIME SIGNATURE PRINTED NAME REMARKS RECEIVED BY 0 - NONE PRESERVATIVE KEY 6 - MeOH 5 - Zn Acetate 4 - NaOH 3 - H2SO4 2 - HNO3 1-HCL 7 - NaHSO4

S ADMINICOC FORM XLS (Revised Merch 2001)

Note After the laboratory has received samples and signed the Chain of Custody Record, relain the yellow copy for the Lab files. Send the while copy and express ticket to ERM Southeast at the address shown.

7106 Crossroads Blvd

10-CH HUDY-910115-101 44 - 16915 AT 4h012-31745 Actinquished by (Signature) Relinquished by (Signature) SVIUT-6 DUP SV532-11 White copy return Relinquished by (Signature PROJECT NAME & 31532-B 215277 31535E CLIENT REPRESENTATIVE PROJECT NO 10 BIK-1 <insettle 1255A SAMPLE ID 1225A V522-7 てもて DATE yellow copy to lab, pink copy to sampler PROJECT CONTACTO TIME COMP GRAB PROJECT MANAGER PROJECT LACATION (Include Matrix and Point of Sample) Date / Time Date / Time FISH wate vitto as 334 SAMPLE DESCRIPTION FISH んして \$ 25.242 Another 12 Received for Laboratory by Received by (Signature) Received by (Signature) NE 02331 AE 12330 AE 02.528 140 0 2 3 3 3 3 ME 02327 HE02340 PE 02339 PE 07329 AE O 2326 ME 02332 PE 07338 PE 02337 At 02336 PE 02335 CHAIN OF CUSTODY RECORD CONTAINERS Relinquished by (Signature) Relinquished by (Signature) Date / Time SAMPLERS (Signature) Remarks 300 ton HOUD - NOT NETESSARY FOR XON HOLD LAN LAN HOLD HOLD Date / Time Date / Time sample analyzed-de sample analyzed - der AND REMARKS Sulta 228 Brentwood, TN 37027 ANTICOTO - FOR Received by (Signature) Received by (Signature) 01040082 (615) 373 3350

Note Altor the laboratory has received samples and agned the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express tricket to ERM Southeast at the address shown.

CHAIN OF CUSTODY RECORD page 1 of 3

ERM-SOUTHEAST, INC 7106 Crossroads Bivd Suite 228 Brentwood, TN 37027

Note Allier the laboratory has received samples and signed the Chain of Custody Record, relain the yellow copy for the Lab tiles. Send the white copy and express ticket to ERM Southeast at the address shown.

White copy return M. yellow copy to lab, pink copy to sampler		Relinquished by (Signature)	Relinquished by (Signature)	Relinquished by (Signature)	X	>V532-4	SV532-3 X	X X X X X X X X X X X X X X X X X X X	X X			S 1106-13	X 110672	SV18-11	SU106-10	SUBT	X 10105	SV106-714/17/01 X	SAMPLE DATE TIME OF GRAB	PR PRINCIPLE PRI	DIECT CONTACT	"E fryk Study	the yellow copy for the Lab likes. Send the white copy and express ticket to ERM. Southeast at the address shown.
	(Signature)  Mulacirel	Time	1006	47	AE 02324	AE02323	AE OLZZ	AE 02321	AE 02320	AE02319	AE02318	AF 02317	AE02316	AE0 2315	AE 02314	AE02313	1 AE02312	475/ NEO2311	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	PROJECT MANAGER	1537 53 5 O	PROJECT LORATION SC	
SAMPLERS	Date / Time Remarks	Relinquished by (Signature)	Relinquished by (Signature)																	ITAINE	RS	/A/B/C/D/E/	CHAIN OF CUSTODY RECORD Page & of 3
(Signature)	3,3°C	Date / Time Received by (Signature)	Date / Time Received by (Signature)		4	Policit												80	AND HEMARKS	ANALYSES REQUESTED	/// 01040082		ERM-SOUTHEAST, INC 7106 Crossroads Blvd Sulie 226 Branwood, TN 37027 16151 373 3350

Note After the taboratory has received samples and argned the Chain of Custody Record, retain the retiow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address shown.

(Signature)	SAMPLERS		,	relignes o	yellow copy to lab, pwik copy to sampler	White copy return yellow
	Date / Time Remarks $20701 \mid 1030 \mid 67 \mid 66$	by 4-20	(Signature) - A MCC ACCE	Control of the contro		
Date / Time	Relinquished by (Signature)		Received by (Signature)	·	(U/G)	Relinquished by (Signature)
Date / Time	Relinquished by (Signature)		· · · · · · · · · · · · · · · · · · ·	<del></del>	A STATE OF THE PARTY OF THE PAR	Relinguished by Secretary
	-					·
		-	2 2 3 1 2			
			1ate ME02442	Walex W/a-		Chank 3
Hold						0 12570
Hold			AE 02439			0/25/2
			AE02438	×		55 57 20
- July			AE02437	X	×	N532-253
			AE02436	\tag{\tau}	<u> </u>	スジュキ
		_	AE02435		X	N232-254
			AEO2434		<b>X</b>	51832-22
		<u></u>	AE02433		<b>X</b>	SV532-21,
		_	AED2432	X		21/51/2-10
			· AE 02431		}	01532-191
		/	~ AE02430	F151	X	8/1/8
		KU	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	SAMPL G (Include Matr	COMP	SAMPLE DATE
ANALYSES REQUESTED		MBER		PROJECT MANAGER		CLIENT HEPHESENTATIVE
` `		OF ERS	TELEPHONE NO 33550	I'm Oil	PROJECT CONTACT	PROJECT NO PF
G/H/1			PROJECT LOCATION SC	PROJECT LOCA	L Study	PROJECT NAME 25
	RECORD Dage 2 of 3	CHAIN OF CUSTODY RE	,	\		
ERM-SOUTHEAST, INC			peast of the	ned the Chain of Custody Rec d express licket to ERM South	ceived samples and sig Send the white copy and	note Allor It e laboratory tras received sarrules and signed the Chain of Custody Record, relain the yellow copy for the Lab files. Send the white copy and signess inchest to ERM Southeast at the address shown.

Note Altor the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab liles. Send the while copy and express ticket to ERM Southeast at the address shown

PROJECT NAME PROJECT PORTION SC CHAIN OF CUSTODY RECORD /A/B/C/D/E/F/G/H/I Page 10f3 ERM SOUTHEAST, INC 7106 Crossroads Bivd Suite 228 Brentwood, TN 37027 (615) 373 3350

Whi		, <u>, , , , , , , , , , , , , , , , , , </u>		B A	<u> </u>	<u>N</u> Ú	<u>14</u>	10	1 6	2 6	3 2	3/2	<u> ال</u>	35	2/2		<u> </u>	1	100	1 3/5	[
White excey return	-		Polis and by (Signature)	Double of Property of the Prop	Relinguished by (Signature	N231-16	2/5/2-15	11-75SA	91-911A	>V/06-17	11-9011	THOM	101-16	1017	11/01/1	101-15	17-COIN	11-101	54107-10	SAMPLE	CLIENT HEPHESENIATIVE
		y (Signatu	Y (Signatu	A S	Signalia	-											1		9/1/6	DATE	SENIATIVE
1 1		re)	.   e	3																TIME	A
	ļ			74	<u> </u>	X	X	7	X	×	7	X	X	7	7	X	X	7	×	GRAB	
		Date / Time	Date / Time		\				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \										4567	SAMPLE (Include Matrix	PROJECT MANAGER
	Swal Rice	Received for Laboratory by (Signature)	Received by (Signature)		NE 12429	AE12428	AE 12427	THE OZYALE	MED2425	AE OZHZY	AE OL423	AF OR422	AE02421	ME02420	AEDZYIA	AE 02418	AEUZHIT	AE02416	AEOZHIS	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	A CO
	8.	ory by	ure)	ure)												,				NUI	MBER
	4-20-01	02	Relinquish	Relinquish																	\
_	( 1030	Dale / Time	hed by (Signature)	Relinquished by (Signature)			-												<b>-</b>		
	5.100	Remarks	ture)	lure)																	<u> </u>
	7		Date / Time	Date / Time			12/		1//1		1,1					D.0//			$\frac{1}{2}$		/ /ANA
							11081	1+							<u> </u>	0 + 2,	-		F	AND REV	ANALYSES REQUESTED
			Received by (Signature)	Received by (Signature)				Ď.	0.00										718	AARKS	SES REQUESTED

While copy retur

A. yellow copy to lab, pink copy to sample:

SAMPLERS (Signature)

ĵ.	181 s	 		· ,	( <u>)</u>		. ; <del>-</del>			:	Ä.			اس بة الأرد د - الرود ا	- 31 <sup>2</sup> ,	1	· ·		) YE (	نم در چ <sup>د</sup> در	:	2.0		<u> </u>	·,		1	5,5	• •		- Y	- 2		) 				
-			DATE/TIME	COMPANY	TAN LED NAME		SIGNATURE	RELINQUISHED BY	RECEIVED BROKEN OR LEAKING	AMBIENT OR CHILLED				The second secon		-		1110 00 JUNE		0	SV 107-13 DUD	SAMPLE ID	, 	RESULTS TO BE E-MAILED	777	TOM	SAMPLING FIRM		SAMPLED BY (Please Print)	1.16-372 - 325 D	JIM OM	PROJECT MANAGER	ERMSE	CLIENT (REPORTS TO BE SENT TO)	Telephone (518) 346-4592	2190 Technology Drive, Schenectady,	NORTHEAST ANALYTICAL.	CHAIN OF
			DATE/TIME	COMPANY	PRINTED NAME	!	SIGNATURE	] :	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TEMB C 12		-						4-18-01	10 01	11-18-11	_	DATE 1	FAX#	E-MAIL ADDRESS										Info	3-4592 F	ive, Schene	ANALYT	CUSTOD
					7			CEIVED BY	COCTAPE		-		**	, i	,			- FISH	HC1	<u>, ' ' ' '</u>	5451 <del>3</del>	TIME MATRIX			***	NAME OF COURIER (IF USED)	\ \ \ \	REGUIRED LORN AROUND TIME		CLEMS	· · ·	LOCATION (CITY)	TISE STUD	Information @nealab com	Fax (518) 381-6055		ICAL, INC.	CHAIN OF CUSTODY RECORD
· · ·		DATETIME		COMPANY	PRINTED NAME -		RELINQUISHED BY		~		3 .	<i>-</i>					3	G 19502445	L KCD7AA	Anda	;::-\	<del>:,-</del> 2	GRAB/ SAMPLE ID	· IAR		ER (IF USED)	·	AROUND TIME		CLENSON, SC		NATS.	) TILDY			LRF#		PAGE 3
		DATE/TIME		Company	PRINTED NAME	SIGNATURE	RECEIVED BY	RECVD W/I HOLDING TIMES	PROPERLY PRESERVED									~ ×	X		-							AINE		<b>X</b> 0.3	BOTTLE SIZE	האבשבתאאוועב כטטבן	EN EN TWE COL		(NEA USE ONLY)	01040090		OF 05
		DATE/TIME	COMPANY		PRINTED NAME	SIGNATURE	RELINQUISHED BY	z	ν ν																4		~ _	20	Len	* (2)			ENTER ANALYSIS AND METHOD NUMBER REQUESTED	y	Additional charges include	DISPOS	RETURN	DISPOSAL REQUIREMENTS: (To be filled in by Client)
S VADM		DATE/TIME	COMPÁNY	TRIVIEUNAME		SIGNATURE	SHED BY		OTHER NOTES	-									<del>-</del>			/ / /-	/ / -				\ \ \						THOD NUMBER REQU	ca for disposal (ii liazaldous	ARCHIVAL BY NORTHEAST ANALYTICAL	DISPOSAL BY NORTHEAST ANALYTICAL	RETURN TO CLIENT	MENTS: (To be fille
S WOMINICOC FORM XLS (Revised March 2001)			Υ	NAME		RE RECEIVED BY	מהיים														REMARKS			8 - Olher	7 - NaHSO4	6 - MeOH	/ 5 - Zn Acetate	4 · NaOH	3-H2504	1-HCL	0 - NONE	PRESERVATIVE KEY	JESTED	of archival Call for details	NALYTICAL	NALYTICAL		ed in by Client)

Note After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM-Southeast at the address shown

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC 7106 Crossroads Blvd ,Sulte 228 Brentwood, TN 37027

(615) 373-3350

White copy resur		Telino	. (T)	Heling					1		) [=	50			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1911 S 1721	-1159NS 277	1 0	17	NY.	SA	·	CLIEN C	PROJE
		Helinquished by (S	- (	Helinquished by (S	Tellinquisine by		<u>.</u>		707	27		642	11/2	535 4		42-26	11-148	721-11AN	5455011R	0.	SAMPLE E	-	CLIENT REPRESENTATIVE	CT NAME
yellow copy to lab,		(Signature)		(Signature)	Signatur				130	120	*	1	+	[2]		=	2	4/27	1/27	1/27	DATE TIME		ATIVE	45 AS
M, yellow copy to lab, pink copy to sampler				···	12				×	<>	\$	X	X	3		X	X	X	X	X	COMP	┥		rides
er ''		Date / Time		/Date / Tir	$\frac{1}{5}$ $\frac{\text{Date}}{16}$				=	Wate		1		Sedin		H	1	11	M	Fish	SAM (Include M		101	PROJECT COOKINGN
	La Marie		123	Time; Receiv	Received	The state of the s	To put		A	2	10 10 10 10 10 10 10 10 10 10 10 10 10 1			ent 1		-1-3	3 13 1	- 1 - 1 - 1		4.55	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)		TELEPHO	SERVI O
- 1	$\mathcal{L}_{I}$	Received for Laboratory by	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Received by; (Signature)	ed by (Signature)	1	27.1		Ea2903	4602902	第-	E0290	E02900	H02899	, <u> </u>	8687034	Hazer	AED2896	AED289S	AE02894	TION t of Sample)		3733360	7 2
	rice	lory by		ture)	ture)				ω	2		7	0 2	97		18	7 1	- B	ς _	y l	NL CO	IMBEI NTAII	R OF	
	J-1-0,	D		Relinquis	Relinquished by	`		_		-		1										<u>&gt;</u>		
	000/	Date / Time	-	Relinquished by (Signature)		-		,		_												Q \ \		AB
SAMPLER		Remarks		ature)	(Signature)		-																	/c/D/E
SAMPLERS (Signature)				Date	Date				1		,						M	Roberas		P				/F/G/H
	,		-	/ Time F	Date / Time F		-	4	6		-			-		7.0	·Λ /	\$	Z			ANALYSES	10	1
	)			Received by (Signature)	Received by (Signature)				) /2								141-14	51/642-12	27 227-0	KU 535-017		ANALYSES REQUESTED	01050009	
				(Signature)	(Signature)	-		(	200							10000	40000	Chair	1 7 1	7.0-7		J	99	

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC 7106 Crossroads Bivd Suite 228 Brentwood, TN 37027

(615) 373-3350

SAMPLERS (Signature)	200		sampler	ERM, yellow copy to lab, pink copy to sampler	Whれе ∞ру гет
7401	42701 1030	Lise Chic			
ŝ	Date / Time Remarks	Received for Laboratory by	Date / Time	Helinquished by (Signature)	Helinquished
Date / Time	Relinquished by (Signature)	Received by (Signature)	Date / Time	Helinquished by (Signature)	Helinquished
Date / Time	Relinquished by (Signature)	Received by (Signature)	Capol 1000	Anne Pello	A semidar
	and the			/Grant	Belinginghad
MA ROP					6-43
white,	TOO MOUNT OUT	S. A.	Wat		2.5
1,			+	X / 2-11-20	2010
Restaura	500				190-7191K
	Method Land			x	SUMPL
	7				1-44V-70
		>			H-HANS
Lallica's	2				2007-18
3		<b>&gt;</b>		<b>X</b>	51642-11
		<u></u>		X	FT-11975
		\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		<b>X</b>	Sv.41-23
					548-11-22
		7			2-901AC
Q. Q			Hert	o Hzsbi X	51/07-20
			SAMPLE Di (Include Matrix ar	DATE TIME COMP	SAMPLE
ANALYSES REQUESTED		MBER	PHOJECT MANAGER		7
		450	700	PROJECT PONTACT	PROJECT NO
/E /F /G /H / I / GIRINWOOD, IN 3/02/	/A /B /C /D /	15 VBSW	PROJECT LOCATION CON	Transfide	PROJECT NAME

Note After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM-Southeast at the address shown.

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC 7106 Crossroads Blvd Sulte 228

White copy retu - RM, ye		Helinquished by (Sig		Helinquished by (Signature)	Relinquished by (Sig		-	4h 1980 Ac	25574	20106	2000	200012	480 44	5D-005	517-007	5000	5D-001 4/2	SAMPLE DATE	7	CLIENT REPRESENTA	NAME	ביייון דכה כפס
M, yellow copy to lab, pink copy to sampler		(Signature)		nature)	Signature)			8	7	3	Z	2770	7300	0421	072	Te -	X agi 10/8	TIME COMP		PHOJEST COMPON	2172	+++
mpler	The check	Date / Time Received for Laboratory by	<u> </u>	30	Date / Time Received by 7500000		_	AE02807	AED2806	AE02805	AE 02-804	AE 02 803	VE05-807	108C03801	AEOZSIO	AE02799	Scaliment AF02798	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	PHOJECI MANAGERO	0544419	PROJECT LOCATION SC	
SAMPLERS	130.01 0820	Date / Time Remarks	Helinquished by (Signature)	Relinduisned by (Signature)					1								2 11	CON	MBERNTAIN		/A/B/C/D/E	CHAIN OF CUSTODY RECORD
S (Signature)			Date / Time Received by (Signature)	Date / Time Received by (Signature)														AND HEMAHRS	ANALYSES REQUESTED	1/// 01040146	/F/G/H/I/	Suite 228 Brentwood, TN 37027 (615)
			اق	<u>)</u>																		(615) 373-3350